

### Air Band Transceiver

**VXA-300** 

Service Manual

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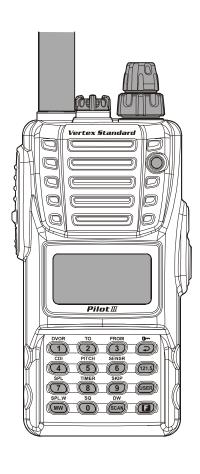
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#### Introduction

This manual provides technical information necessary for servicing the **VXA-300** Air Band Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

Two PCB layout diagrams are provided for each double-sided circuit board in the transceiver. Each side of thr board is referred to by the type of the majority of components installed on that side ("leaded" or "chip-only"). In most cases one side has only chip components, and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

While we believe the technical information in this manual to be correct, Vertex Standard assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

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## Specifications

General

**Frequency Range**: TX: 118.000 - 136.975 MHz

RX: 108.000 - 136.975 MHz,

Weather Channels (WX-01 - WX-10: USA version only)

Channel Spacing: 25 kHz/8.33 kHz (8.33 kHz: RX only)

**Emission Type**: TX: AM

RX: AM & FM (FM: for receiving the Weather Channels, USA version only)

**Supply Voltage**: 6.0 - 15.0 VDC **Current Consumption** (approx.): 20 μA (power off),

20 mA (battery saver on, saver ratio 1:5)

60 mA (squelch on), 270 mA (receive),

0.9 A (transmit 1.5 W Carrier)

**Temperature Range:**  $+14 \,^{\circ}\text{F to} + 140 \,^{\circ}\text{F} (-10 \,^{\circ}\text{C to} +60 \,^{\circ}\text{C})$ 

Case Size (WxHxD): 2.4 x 4.7 x 1.2 inches (60 x 120 x 32 mm) with FNB-83

Weight (approx.): 13.7 oz (390 grams) with FNB-83 and antenna

Receiver

**Circuit Type**: Double-conversion superheterodyne

**IFs**: 35.4 MHz & 450 kHz

**Sensitivity**: Better than 0.8  $\mu$ V (for 6 dB S/N with 1 kHz, 30 % modulation)

**Selectivity**: >8 kHz/–6 dB **Adjacent CH. Selectivity**: <25 kHz/–60 dB

**AF Output** (@7.2 V): 0.8 W @ 16 Ohms, 10 % THD

Transmitter

**Power Output** (@ 7.2 V): 5.0 W (PEP), 1.5 W (Carrier Power)

Frequency Stability: Better than  $\pm 10$  ppm ( $\pm 14$  °F to  $\pm 140$  °F [ $\pm 10$  °C to  $\pm 60$  °C])

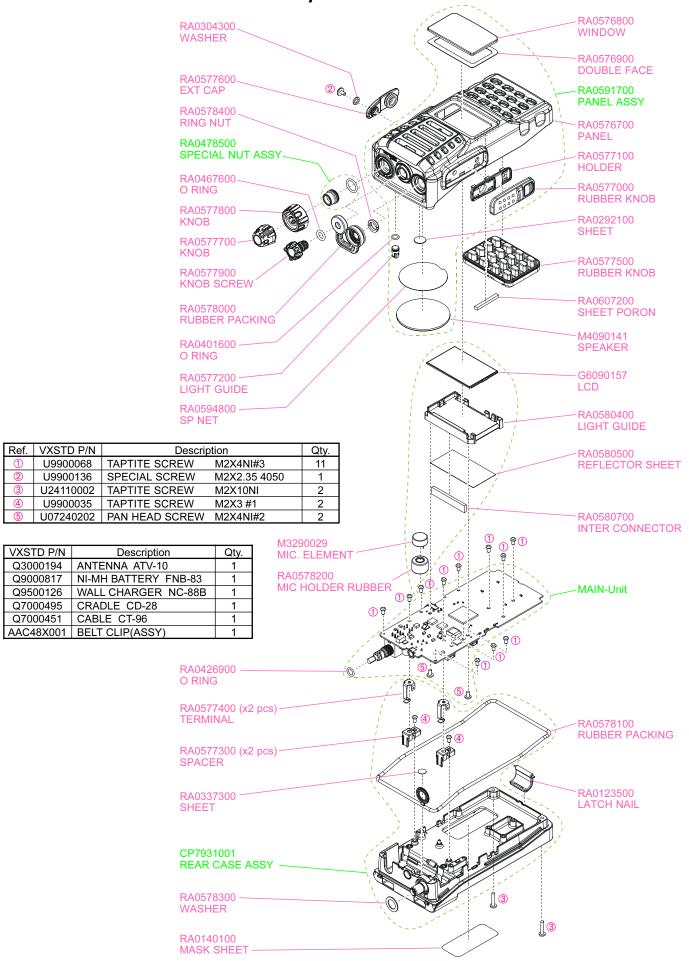
Modulation System: Low Level Amplitude Modulation

**Spurious Emission**: >60 dB below carrier

Int. Microphone Type:CondenserExt. Mic. Impedance:150 Ohms

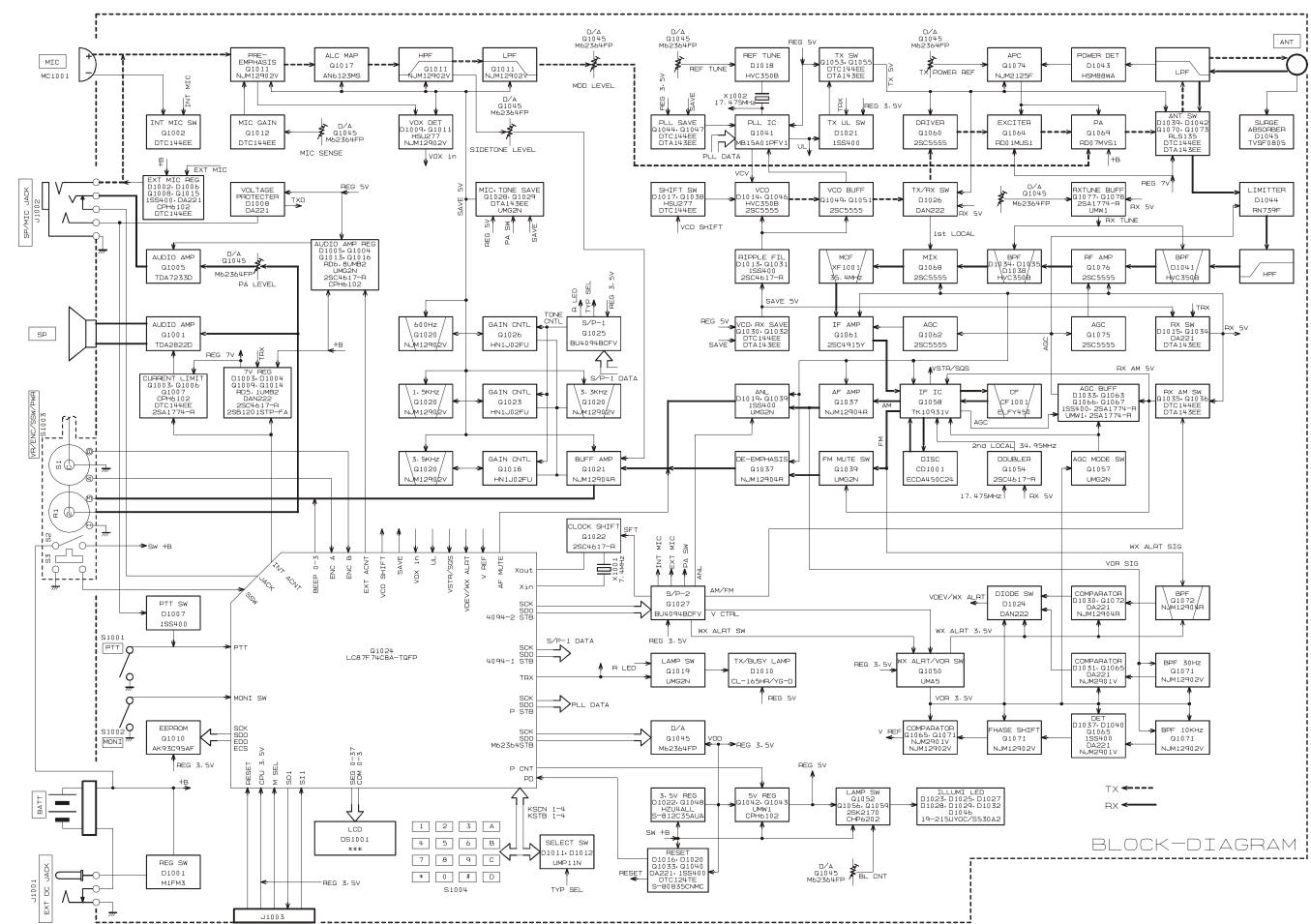
Specifications are subject to change without notice or obligation.

# Exploded View & Miscellaneous Parts



# Exploded View & Miscellaneous Parts

# Block Diagram



# Block Diagram

Note

### Receive Signal Path

Incoming RF from the antenna jack is passed through a low-pass filter and high-pass filter consisting of coils L1022, L1025, L1026, L1027, L1028, & L1029, capacitors C1271, C1276, C1277, C1278, C1280, C1281, C1282, C1283, C1285, C1286, C1289, C1290, C1293, C1294, & C1295 and antenna switching diodes **D1039** and **D1042** (both **RLS135**) to the receiver front end section.

Signals within the frequency range of the transceiver is applied to the receiver front end which contains RF amplifier Q1076 (2SC555ZD) and varactor-tuned band-pass filter consisting of coils L1014, L1017, L1018, L1019, L1023, L1024, & L1031, capacitors C1241, C1243, C1245, C1246, C1248, C1250, C1255, C1256, C1259, C1266, C1272, & C1273, and diodes D1034, D1035, D1038, & D1041 (all HVC350B), then applied to the 1st mixer Q1068 (2SC5555ZD).

Buffered output from the VCO is amplified by **Q1049** (**2SC555ZD**) to provide a pure 1st local signal between 143.4 and 172.4 MHz for injection to the 1st mixer. The 35.4 MHz 1st mixer product then passes through monolithic crystal filter XF1001 (7.5 kHz BW) which strips away all but the desired signal, which is then amplified by mixer post-amp **Q1061** (**2SC4915Y**).

The amplified 1st IF signal is applied to the AM/FM IF subsystem IC Q1058 (TK10931VT1), which contains the 2nd mixer, 2nd local oscillator, limiter amplifier, noise amplifier and AM/FM detector.

A 2nd local signal is generated by PLL IC **Q1041** (**MB15A01PFV1**) from the 17.475 MHz crystal X1002. The17.475MHz signal is doubled by **Q1054** (**2SC4617**) to produce the 450 kHz 2nd IF when mixed with the 1st IF signal within **Q1058** (**TK10931VT1**). The 2nd IF then passes through the ceramic filter CF1001 to strip away unwanted mixer products.

In the FM mode, a 2nd IF signal from the ceramic filter CF1001 applied to the limiter amplifier section of **Q1058** (**TK10931VT1**), which removes amplitude variations in the 450 kHz IF before detection of the speech by the ceramic discriminator CD1001. Detected audio from **Q1058** (**TK10931VT1**) is passed through the de-emphasis, consisting of the resistors R1144, R1152, R1155, & R1199, capacitors C1118, C1119, C1124, C1149, & C1151, and **Q1037-2** (**NJM12904R**).

In the AM mode, detected audio from Q1058 (TK10931VT1) is passed through the audio amplifier Q1037-1 (NJM12904R) and ANL circuit, then applied to the AF amplifier Q1037-2 (NJM12904R). When impulse noise received, a portion of the AM detector output signal from the AM/FM IF subsystem Q1058 (TK10931VT1), including pulse noise is rectified by D1019 (1SS400). The resulting DC is applied to the ANL MUTE gate Q1039 (UMG2N), thus reducing the pulse noises.

The processed audio signal from Q1037-1 (NJM12904R) is passed through the AF mute and amplifier Q1037-2 (NJM12904R) to the audio tone equalizer Q1021 (NJM12904R), Q1018 (HN1J02FU), Q1023 (HN1J02FU), Q1026 (HN1J02FU), and Q1020 (NJM12904R). The equalized audio signal is passed through the volume control to the audio power amplifier Q1001 (TDA2822D013TR), providing up to 0.8 Watts to 16-ohm loudspeaker or audio power amplifier Q1005 (TDA7233D), providing up to 0.4 Watts to 8-ohm the headphone jack.

A portion of the AF signal from the AM/FM IF subsystem Q1058 (TK10931VT1) converted into DC voltage within the IC, and then passes through the AGC amplifier Q1063 (2SA1774) and Q1066 (UMW1) to the inversion amplifiers Q1075 (2SC5555ZD) and Q1062 (2SC5555ZD). These amplifier reduce the amplifier gain of the IF amplifier Q1061 (2SC4915Y) and the RF amplifier Q1076 (2SC5555ZD) while receiving a strong signal.

### Squelch Control

When signal is received, appear the DC squelch control voltage at pin 15 of AM/FM IF subsystem Q1058 (TK10931VT1) according to the receiving signal strength. This DC is applied to pin 16 of microprocessor Q1024 (LC87F74C8A).

The DC squelch control voltage is compared with the SQL threshold level by the microprocessor Q1024 (LC87F74C8A). If the DC squelch control voltage is lower, pin 7 of Q1024 (LC87F74C8A) goes high. This signal activates the AF MUTE gate Q1037-2 (NJM12904R), thus disabling the AF audio.

Also, the microprocessor stops scanning, if active, and allows audio to pass through the AF MUTE gate Q1037-2 (NJM12904R).

### Transmit Signal Path

Speech input from the microphone is passed through the microphone amplifier Q1011-1 (NJM12902V), then applied to the ALC amplifier Q1017 (AN6123MS). The amplified speech signal is passed through the high-pass filter Q1011-3 (NJM12902V) and low-pass filter Q1011-4 (NJM12902V), which adjust the modulation level, then fed to the AM modulator Q1069 (2SC5555ZD).

When using the optional headset, the SIDETONE signal from J1002 becomes "HIGH", turning Pin10 of **Q1024** (**LC87F74C8A**) on; pin 91 of **Q1024** (**LC87F74C8A**) therefore a portion of the speech signal applied to the AF power amplifier **Q1005** (**TDA2733D**) as a monitor signal.

The carrier signal from the VCO Q1046 (2SC5555ZD) passes through the buffer amplifier Q1049 (2SC5555ZD) and TX/RX switch D1026 (DAN222).

The signal from D1026 (DAN222) is amplified by Q1060 (2SC5555ZD) and Q1064 (RD01MUS1), and ultimately applied to the final amplifier Q1069 (RD07MVS1) which increases the signal level up to 5 watts output power. The transmit signal then passes through the antenna switch D1039 (RLS135), and is low-pass filtered to suppress away harmonic spurious radiation before delivery to the antenna.

#### Automatic Transmit Power Control

RF power output from the final amplifier is sampled by C1275/C1279 and is rectified by **D1043** (**HSM88WA**). The resulting DC is fed through the Automatic Power Controller **Q1074** (**NJM2125F**), thus allowing control of the power output.

#### Transmit Inhibit

When the transmit PLL is unlocked, pin 7 of PLL chip Q1041 (MB15A01PFV1) goes to a logic low. The resulting DC "unlock" control voltage is switches off TX inhibit switches Q1053 (DTC144EE), and Q1055 (DTA143EE) to disable the supply voltage to transmitter RF amplifiers Q1060 (2SC5555ZD), disabling the transmitter.

### Spurious Suppression

Generation of spurious products by the transmitter is minimized by the fundamental carrier frequency being equal to the final transmitting frequency. Additional harmonic suppression is provided by a low-pass filter consisting of L1025, L1027 & L1029 and C1271, C1280, C1282, C1285, C1289 & C1293, resulting in more than 60 dB of harmonic suppression prior to delivery of the RF signal to the antenna.

### PLL Frequency Synthesizer

PLL circuitry consists of VCO Q1046 (2SC5555ZD), VCO buffer Q1049 & Q1051(both 2SC5555ZD), and PLL subsystem IC Q1041 (MB15A01PFV1), which contains a reference divider, serial-to-parallel data latch, programmable divider, phase comparator and charge pump.

Stability is maintained by a regulated 3.5 V supply via Q1048 (S-812C35AUA) which feeds the PLL reference oscillator Q1041 (MB15A01PFV1), as well as capacitors associated with the 17.475 MHz frequency reference crystal X1002.

In the receive mode, VCO Q1046 (2SC555ZD) oscillates between 143.4 and 172.4 MHz. The VCO output is buffered by Q1049 & Q1051(both 2SC5555ZD), and applied to the prescaler section of Q1041 (MB15A01PFV1). There the VCO signal is divided by 64 or 65, according to a control signal from the data latch section of Q1041 (MB15A01PFV1), before being applied to the programmable divider section of Q1041 (MB15A01PFV1). The data latch section of Q1041 (MB15A01PFV1) also receives serial dividing data from the microprocessor Q1024 (LC87F74C8A), which causes the pre-divided VCO signal to be further divided in the programmable divider section, depending upon the desired receive frequency, so as to produce a 5 kHz derivative of the current VCO frequency.

Meanwhile, the reference divider section of Q1041 (MB15A01PFV1) divides the 17.475 MHz crystal reference from the reference oscillator section by 3495 to produce the 5 kHz loop reference. The 5 kHz signal from the programmable divider (derived from the VCO) and that derived from the reference oscillator are applied to the phase detector section of Q1041 (MB15A01PFV1), which produces a pulsed output with pulse duration depending on the phase difference between the input signals. This pulse train is filtered to DC and returned to the varactor D1014 (HVC350B).

Changes in the level of the DC voltage applied to the varactors affect the reactance in the tank circuit of the VCO, changing the oscillating frequency of the VCO according to the phase difference between the signals derived from the VCO and the crystal reference oscillator. The VCO is thus phase-locked to the crystal reference oscillator.

The output of the VCO Q1046 (2SC5555ZD) is buffered by Q1049 (2SC5555ZD) before application to the 1st mixer, as described previously.

For transmission, the VCO Q1046 (2SC555ZD) oscillates between 118 and 137 MHz. The remainder of the PLL circuitry is shared with the receiver. However, the dividing data from the microprocessor is such that the VCO frequency is at the actual transmit frequency (rather than offset for IFs, as in the receiving case).

Receive and transmit buses select which VCO is made active by **Q1038** (**DTC144EE**).

Q1077 (2SA1774) and Q1078 (UMW1) amplify the Tune voltage for application to the tracking band-pass filters in the receiver front end.

When the power saving feature is active, the microprocessor periodically signals to the PLL IC **Q1041** (**MB15A01PFV1**) to conserve power, and to shorten lock-up time.

#### Push-To-Talk Transmit Activation

The PTT switch on the microphone is control to pin 22 of microprocessor Q1024 (LC87F74C8A), so that when the PTT switch is closed, pin 31 of Q1024 (LC87F74C8A) goes high. This signals cut off the receiver by disabling the 5 V supply bus at Q1034 (DTA143EE) which feeds the frontend, AM/FM IF subsystem IC Q1058 (TK10931VT1), and receiver VCO circuitry. At the same time, Q1055 (DTA143EE) and Q1053 (DTC144EE) activates the transmit 5 V supply line to enable the transmitter.

Note

#### Introduction

The **VXA-300** is carefully aligned at the factory for the specified performance across the Aircraft and Weather bands. Realignment should therefore not be necessary except in the event of a component failure.

The following procedures cover the adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts subsequently are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. If a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and realignment determined to be absolutely necessary. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy

Vertex Standard reserves the right to change circuits and alignment procedures, in the interest of improved performance, without notifying owners.

The following test equipment (and familiarity with its use) is necessary for complete realignment. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a signal step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy.

### Required Test Equipment

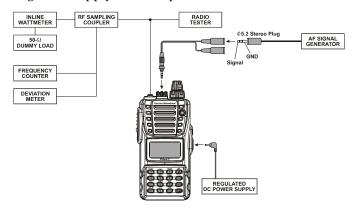
- O Avionics Radio Tester with calibrated output level at 200 MHz
- O In-line Wattmeter with 5 % accuracy at 200 MHz
- O 50-ohm, 10 W RF Dummy Load
- O Regulated DC Power Supply adjustable from 3 to 15 VDC. 2 A
- O Frequency Counter: ±0.2 ppm accuracy at 200 MHz
- O AF Signal Generator
- O AC Voltmeter
- O DC Voltmeter: high impedance
- O VHF Sampling Coupler

### Alignment Preparation & Precautions

A 50-ohm RF load and in-line wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the next step to see if the same test equipment is required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 20 - 30 °C (68 - 86 °F). When the transceiver is brought into the shop from hot or cold air, it should be allowed some time to come to room temperature before alignment. Whenever possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

Set up the test equipment as shown below for transceiver alignment, apply 7.2 VDC power to the transceiver.



*Note*: signal levels in dB referred to in alignment are based on  $0 \text{ dB}\mu = 0.5 \mu\text{V}$  (closed circuit).

# Alignment

#### **PLL Section**

#### PLL Reference Frequency

- ☐ Connect the wattmeter, dummy load and frequency counter connected to the antenna jack, then set the transceiver to 128.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O9 REF xxx."
- ☐ Press the **PTT** switch, and confirm that the counter reading is 128.000 MHz.
- ☐ If not,
  - 1. press the **VOLUME** knob momentarily,
  - 2. rotate the **DIAL** selector knob clockwise (frequency up) or counter-clockwise (frequency down),
  - 3. press the **VOLUME** knob again,
  - 4. confirm the counter reading.
- $\square$  Repeat above steps 1 4, so that the counter reading is 128.000 MHz ( $\pm$ 100 Hz).
- ☐ Turn the transceiver off.

# How to Store Weather Channel "WX-010" into a Regular Memory Channel

- □ Press the VOLUME knob (repeatedly, if necessary) to select the Weather channel mode. The VXA-300 will scan quickly through the Weather channels.
- ☐ Press the **MONITOR** switch momentarily to stop the scanning, then rotate the **DIAL** knob to select the channel "WX-010."
- ☐ Press and hold in the [MW (SPL-W)] key for 2 second, then rotate the DIAL knob to select the memory channel number for storage.
- □ Now, press and hold in the [MW (SPL-W)] key for 2 second to save the entry and exit.

#### Receiver Section

#### AM Squelch Threshold Adjustment

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to –9 dBµV (with a standard AM modulation: 30 % AM modulation @ 1 kHz) at 128.000 MHz.
- ☐ Set the transceiver to 128.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O1 AMTH xx."
- ☐ Press the **VOLUME** knob twice.
- ☐ Turn the transceiver off.

#### AM Squelch Tight Adjustment

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to +10 dBµV (with a standard AM modulation: 30 % AM modulation @ 1 kHz) at 128.000 MHz.
- ☐ Set the transceiver to 128.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O2 AMTI xx."
- ☐ Press the **VOLUME** knob twice.
- ☐ Turn the transceiver off.

#### FM Squelch Threshold Adjustment

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to  $-11~dB\mu V$  (with a standard FM modulation:  $\pm 3kHz$  deviation @ 1 kHz) at 163.275 MHz.
- ☐ Store Weather Channel "WX-010" into a "regular" memory channel, per the instructions in the box to the left.
- ☐ Recall the memory channel into which you just stored Weather Channel "WX-010" in the previous step, then turn the radio off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O3 FMTH xx."
- ☐ Press the **VOLUME** knob twice.
- ☐ Turn the transceiver off.

FM	Squelch	Tight	Adiu	stment
	Coportion		1 100   00	

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to +10 dBµV (with a standard FM modulation: ±3kHz deviation @ 1 kHz) at 163.275 MHz
- ☐ Store Weather Channel "WX-010" into a "regular" memory channel, per the instructions in the box on the previous page.
- ☐ Recall the memory channel into which you just stored Weather Channel "WX-010" in the previous step, then turn the radio off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O4 FMTI xx."
- ☐ Press the **VOLUME** knob twice.
- ☐ Turn the transceiver off.

#### AM Squelch Hysteresis Adjustment

- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "05 AMHS xx."
- ☐ Press the **VOLUME** knob momentarily, then adjust the hysteresis level using the **DIAL** selector knob.
- ☐ Press the **VOLUME** knob again.
- ☐ Turn the transceiver off.

#### FM Squelch Hysteresis Adjustment

- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "06 FMHS xx."
- ☐ Press the **VOLUME** knob momentarily, then adjust the hysteresis level using the **DIAL** selector knob.
- ☐ Press the **VOLUME** knob again.
- ☐ Turn the transceiver off.

#### **Transmitter Section**

#### TX Power Adjustment

- ☐ Connect the wattmeter and dummy load to the antenna jack, then set the transceiver to 128.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "07 TX PO xxx."
- ☐ Press the **PTT** switch with no microphone input, and confirm the RF output power is 1.5 Watts.
- ☐ If not,
  - 1. press the **VOLUME** knob momentarily,
  - 2. rotate the **DIAL** selector knob clockwise (increase the power) or counter-clockwise (decrease the power),
  - 3. press the **VOLUME** knob again,
  - 4. confirm the RF output power.
- ☐ Repeat above steps 1 4, so that the RF output power is 1.5 Watts.
- ☐ Turn the transceiver off.

#### TX Modulation Adjustment

- ☐ Connect the Radio Tester to the antenna jack, then adjust the AF generator output level for injection of 200 mV rms @ 1 kHz to the MIC jack.
- ☐ Set the transceiver to 127.500 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "O8 MDLV xxx."
- $\square$  Press the **PTT** switch, and confirm the modulation level is 85 % ( $\pm$ 5 %).
- ☐ If not,
  - 1. press the **VOLUME** knob momentarily,
  - 2. rotate the **DIAL** selector knob clockwise (increase the MIC gain) or counter-clockwise (decrease the MIC gain),
  - 3. press the **VOLUME** knob again,
  - 4. confirm the modulation level.
- $\square$  Repeat above steps 1 4, to ensure that the modulation level is 85 % ( $\pm$ 5 %).
- ☐ Turn the transceiver off.

## Alignment

#### **VOR Section**

#### VOR Sensitivity Adjustment

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to +5 dBµV (with a standard AM modulation: 30 % AM modulation @ 1 kHz) at 108.000 MHz.
- ☐ Set the transceiver to 108.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "10 VSTR xxx."
- ☐ Press the **VOLUME** knob twice.
- ☐ Turn the transceiver off.

#### VOR Hysteresis Adjustment

- □ Connect the Radio Tester to the antenna jack, then adjust the output level to +5 dBµV (with a standard AM modulation: 30 % AM modulation @ 1 kHz) at 108.000 MHz.
- ☐ Set the transceiver to 108.000 MHz and turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turning the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select the "11 VSHS xxx."
- ☐ Press the **VOLUME** knob momentarily, then adjust the hysteresis level using the **DIAL** selector knob.
- ☐ Press the **VOLUME** knob again.
- ☐ Turn the transceiver off.

#### VOR Angle Adjustment

- ☐ Connect the Avionics Radio Tester to the antenna jack.
- ☐ Set the transceiver to 108.000 MHz, set up the "FROM" mode (press [F] + [3 (FROM)] key, if necessary), and set the Avionics Radio Tester as shown below.

Frequency: 108.000 MHz Output Level: +40 dBµV

**30** Hz VAR.: 30 % **9.96** kHz Carrier: 30 %

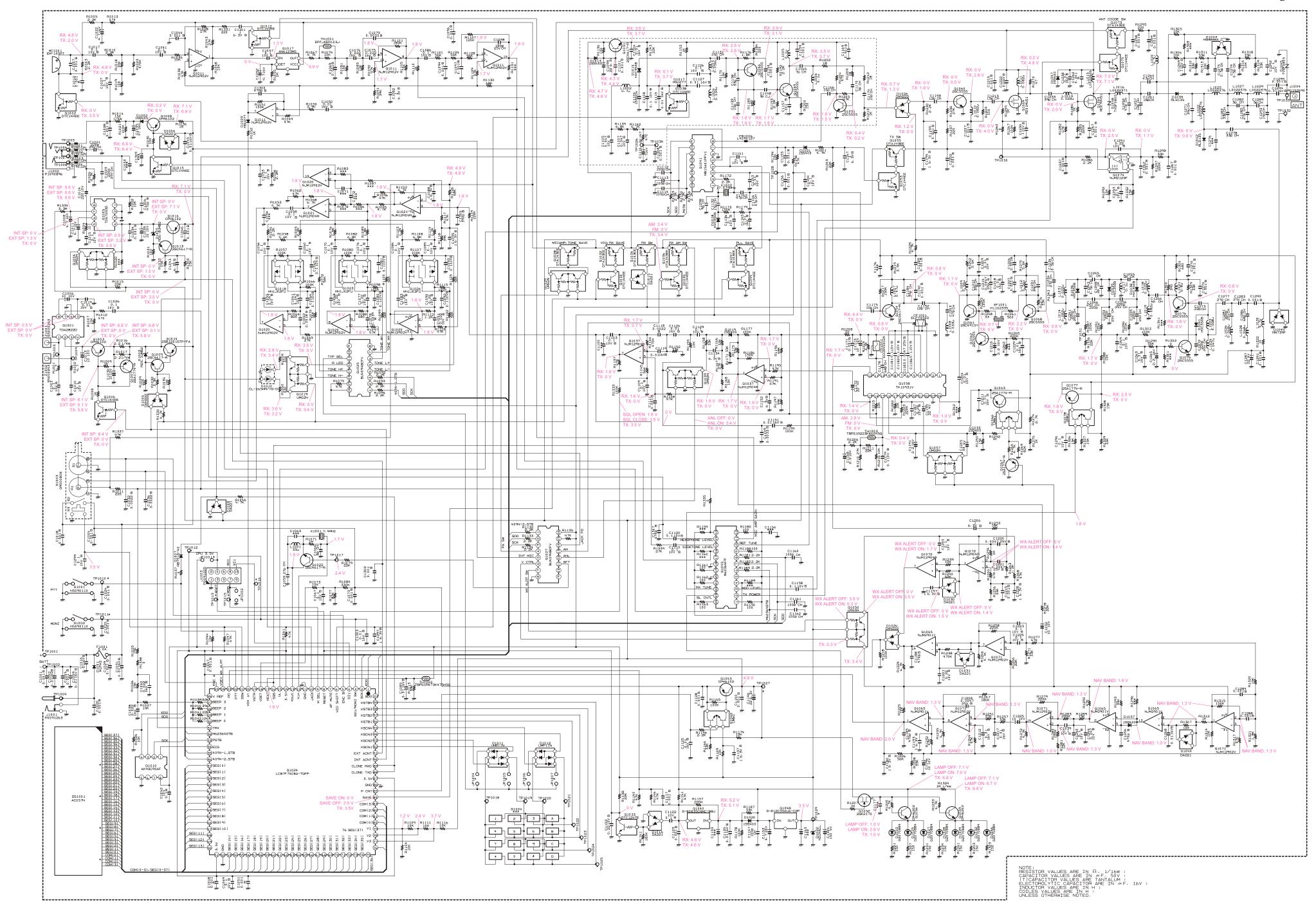
9.96 kHz Modulation: 480 Hz

*DIRECT*: FROM *PHASE*: 15 °

- □ Note the difference of the phase indication between the Transceiver's indication and Avionics Radio Tester's indication, then turn the transceiver off.
- ☐ Press and hold in the **PTT** switch, **MONITOR** switch, and **VOLUME** knob while turn the transceiver on to enter the alignment mode.
- ☐ Rotate the **DIAL** selector knob to select "12 VOR xxx."
- ☐ Press the **VOLUME** knob momentarily, then set the difference value that is noted step 3 above, using the **DIAL** selector knob.
- ☐ Press the **VOLUME** knob twice
- ☐ Turn the transceiver off.

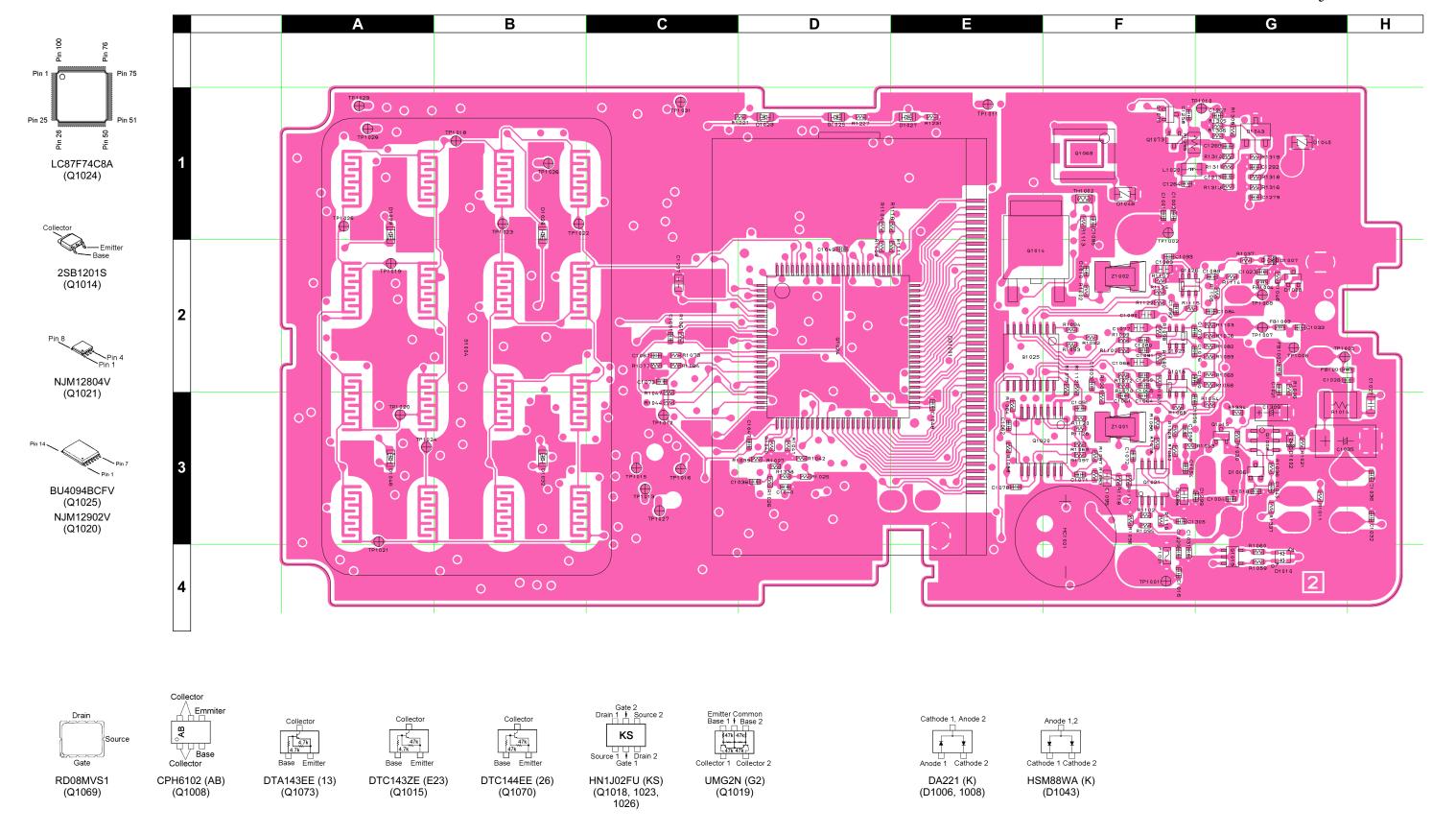
### Resetting the CPU

If you are unable to gain control of the transceiver (or if you want to clear all memories and settings to their factory defaults), press and hold in the **MONITOR** button and **VOLUME** knob while turning the transceiver on.

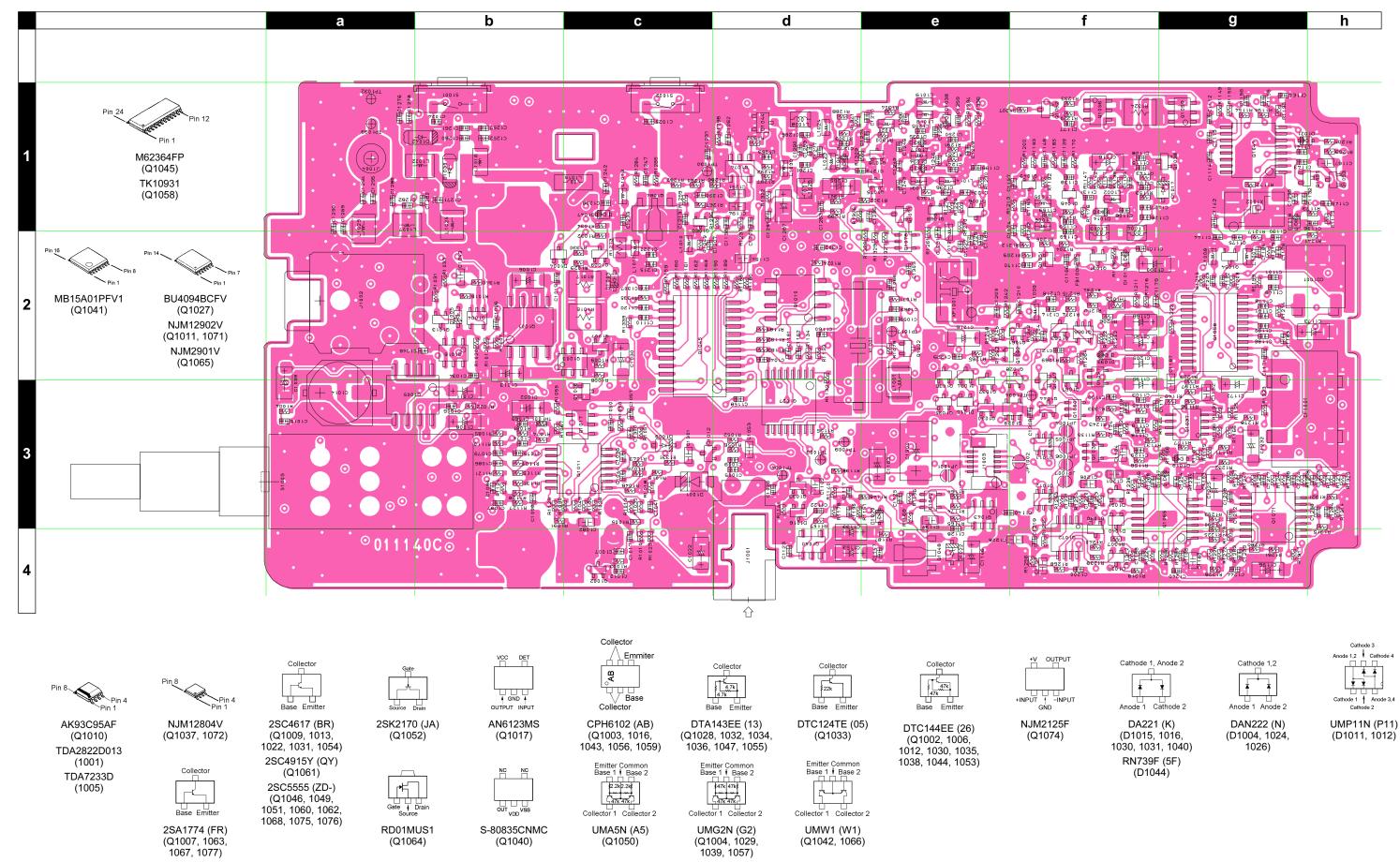


Note

### Parts Layout (Side A)



### Parts Layout (Side B)



PCB with Components	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS. LOT SIDE LAY ADI
Primed Circuit Board		PCB with Components	•		•			DST: VTX
Color   Colo								
Commonstrate   Comm	0.4004		0.0045	L F0\/	l D			
C1004   CHIP CAP.								
C1005   CHIP CAP.								
C 1006   CHIP TA CAP							1	
Color: Chile CAP.   Chile   DOV   B   GRM38B104K10PT   K22108802   1- B   64		CHIP CAP.	0.001uF		В	GRM36B102K50PT		
C1009					_			
C 1010					В			
C1011 CHIP CAP.					B			
Color   Colo							1	
C 10194 ALLELECTRO CAP. 2201F 10V					-		1	
C 1016   CHIP CAP					В			
C 1016   CHIP CAP							1	
C1017   CHIP CAP.					Ь		1	
Control   Cont							1	
C 1019   C 101P CAP.								
C1020   CHIP CAP.							1	1- A G3
C1022							1	
C1022   CHIP TACAP.								
C 1023 CHIP CAP					CH		1	
C1025   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1- B   c1					СН		1	
C1026   CHIP CAP.							1	
C1027   CHIP CAP.   0.1		CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1- B c1
C   1028   C   HIP CAP							1	
C1029   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   F4   C1030   CHIP CAP.   0.002uF   50V   B   GRM36B103K16PT   K22178804   1-   A   F4   C1032   CHIP CAP.   0.002uF   50V   B   GRM36B103K16PT   K22178813   1-   A   H3   C1034   CHIP CAP.   0.002uF   50V   B   GRM36B102K50PT   K22178809   1-   B   b2   C1035   CHIP CAP.   0.002uF   50V   B   GRM36B102K50PT   K22178809   1-   A   H3   C1034   CHIP CAP.   0.002uF   50V   B   GRM36B102K50PT   K22178809   1-   A   H3   C1034   CHIP CAP.   0.002uF   50V   B   GRM36B222K50PT   K22178809   1-   A   H3   C1038   CHIP CAP.   0.002uF   50V   B   GRM36B222K50PT   K22178806   1-   A   D3   C1030   CHIP CAP.   0.002uF   16V   B   GRM36B223K16PT   K2218806   1-   A   D3   C1040   CHIP CAP.   0.002uF   16V   B   GRM36B104K10PT   K2218806   1-   A   D3   C1041   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K2218806   1-   B   d2   C1043   CHIP CAP.   0.1uF   6.3V   B   GRM36B104K10PT   K2218800   1-   B   d2   C1044   CHIP CAP.   0.01uF   6.3V   B   GRM36B104K10PT   K2218809   1-   B   d2   C1044   CHIP CAP.   0.01uF   6.3V   B   GRM36B102K50PT   K2218809   1-   B   d2   C1044   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K2218809   1-   B   d2   C1044   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K2218809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-   A   G3   C1045   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178							1	
C1030   CHIP TA.CAP.								
C1031   CHIP CAP							1	
C1034					В		1	
C1035   CHIP TA, CAP.			0.0022uF		В	GRM36B222K50PT		1- A H3
C 1036 CHIP CAP.					В		1	
C 1038 CHIP CAP. C 1039 CHIP TA CAP. C 1039 CHIP TA CAP. D 0.022uF 16V B GRM36B223K16PT K22128806			-				1	
C 1039   CHIP TA CAP.   10uF   10v   TEMSVA1A106M-8R   K78100028   1-    B   a3   C 1040   CHIP CAP.   0.022uF   16V   B   GRM36B103K16PT   K22128806   1-    A   D3   C 1041   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    B   c3   C 1042   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    B   c3   C 1042   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    B   c3   C 1043   C 1042   C 1044   C HIP CAP.   0.01uF   50V   B   GRM36B103K16PT   K2218809   1-    B   c3   C 1045   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    B   c3   C 1045   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    B   b2   C 1047   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1046   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1046   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1048   C HIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1048   C HIP CAP.   0.01uF   10V   B   GRM36B102K50PT   K22178809   1-    A   D2   C 1050   C HIP CAP.   0.01uF   10V   B   GRM36B102K50PT   K22178809   1-    A   D2   C 1050   C HIP CAP.   0.01uF   16V   B   GRM36B102K50PT   K22178809   1-    A   D2   C 1055   C HIP CAP.   0.01uF   16V   B   GRM36B102K50PT   K22178809   1-    A   D2   C 1055   C HIP CAP.   0.047uF   16V   B   GRM36B102K50PT   K22178809   1-    A   C 2   C 1056   C HIP CAP.   0.047uF   10V   B   GRM36B102K50PT   K22178809   1-    A   F3   C 1055   C HIP CAP.   0.1uF   10V   B   GRM36B102K50PT   K22178809   1-    A   F2   C 1056   C HIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    A   F3   G 1055   C HIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    A   F3   G 1055   C HIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    A   F3   G 1055   C HIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    A   F3   G 1055   C HIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    A							1	
C 1040   CHIP CAP.   0.022uF   16V   B   GRM36B223X16PT   K22128806   1-    A   D3   C 1041   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108802   1-    B   d2   C 1043   CHIP CAP.   1uF   6.3V   B   GRM36B104K10PT   K22108802   1-    B   d2   C 1043   CHIP CAP.   0.001uF   50V   B   GRM36B103K63PT   K22128804   1-    B   b2   C 1044   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    B   b2   C 1044   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    B   b2   C 1044   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   G3   C 1046   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1048   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   D3   C 1048   CHIP CAP.   0.001uF   50V   B   GRM36B102K50PT   K22178809   1-    A   E3   C 1049   CHIP CAP.   0.01uF   10V   B   GRM36B103K16PT   K22128804   1-    A   E3   C 1049   CHIP CAP.   0.01uF   10V   B   GRM36B103K16PT   K22128804   1-    A   D3   C 1048   CHIP CAP.   0.01uF   16V   B   GRM36B103K16PT   K22128804   1-    A   D3   C 1050   CHIP CAP.   0.001uF   50V   B   GRM36B103K16PT   K22128804   1-    A   D2   C 1050   CHIP CAP.   0.001uF   16V   B   GRM36B103K16PT   K22128804   1-    B   63   C 1051   CHIP CAP.   0.047uF   16V   B   GRM36B103K16PT   K22128804   1-    B   63   C 1055   CHIP CAP.   0.047uF   10V   B   GRM36B103K16PT   K22128801   1-    A   F2   C 1056   CHIP CAP.   0.047uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F2   C 1056   CHIP CAP.   0.047uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1057   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1057   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1056   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1056   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1056   CHIP CAP.   0.1uF   10V   B   GRM36B104K10PT   K22108800   1-    A   F3   C 1066   CHIP CAP.   0.1							1	
C 1042 CHIP CAP.					В		1	
C 1043 CHIP CAP.							1	
C 1044 CHIP CAP.								
C 1045 CHIP CAP.							1	
C 1046 CHIP CAP.							1	
C 1048 CHIP CAP.								
C 1049 CHIP CAP.	C 1047	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	
C 1050         CHIP CAP.         0.01uF         16V         B         GRM36B103K16PT         K22128804         1-         B         c3           C 1051         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1052         CHIP TA.CAP.         4.7uF         16V         TEMSVA1C475M-8R         K78120031         1-         B         b3           C 1053         CHIP CAP.         0.1uF         16V         B         GRM36B104K16PT         K22124805         1-         B         b3           C 1055         CHIP CAP.         0.047uF         10V         B         GRM36B104K10PT         K22108801         1-         A         F2           C 1056         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         C								
C 1051         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1052         CHIP TA.CAP.         4.7uF         16V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1053         CHIP CAP.         0.1uF         16V         B         GRM36B104K16PT         K22124805         1-         B         d3           C 1055         CHIP CAP.         0.047uF         10V         B         GRM36B104K10PT         K22108801         1-         A         F2           C 1056         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178222         1-         A         F2           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178222         1-         A         F3           C 1061 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
C 1052         CHIP TA.CAP.         4.7uF         16V         TEMSVA1C475M-8R         K78120031         1-         B         b3           C 1053         CHIP CAP.         0.1uF         16V         B         GRM39B104K16PT         K22124805         1-         B         d3           C 1055         CHIP CAP.         0.047uF         10V         B         GRM36B104K10PT         K22108801         1-         A         F2           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         0.1uF         10V         B         GRM36CH270J50PT         K22108802         1-         A         F3           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHI								
C 1053         CHIP CAP.         0.1uF         16V         B         GRM39B104K16PT         K22124805         1-         B         d3           C 1055         CHIP CAP.         0.047uF         10V         B         GRM36B473K10PT         K22108801         1-         A         F2           C 1056         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         27pF         50V         CH         GRM36B104K10PT         K22108802         1-         A         F3           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHIP CAP.         0.01uF         10V         B         GRM36B104K10PT         K22108801         1-         A         F3           C 1064							1	
C 1056         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         B         C3           C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         27pF         50V         CH         GRM36CH270J50PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1060         CHIP CAP.         0.047uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1061         CHIP CAP.         0.0018uF         50V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1062         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065 <td>C 1053</td> <td>CHIP CAP.</td> <td>0.1uF</td> <td>16V</td> <td></td> <td>GRM39B104K16PT</td> <td>K22124805</td> <td>1- B d3</td>	C 1053	CHIP CAP.	0.1uF	16V		GRM39B104K16PT	K22124805	1- B d3
C 1057         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         B         C3           C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         27pF         50V         CH         GRM36CH270J50PT         K22178222         1-         B         e2           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHIP CAP.         0.047uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1062         CHIP CAP.         0.01uF         10V         B         GRM36B104K10PT         K22178812         1-         A         F3           C 1064         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1067								
C 1058         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1059         CHIP CAP.         27pF         50V         CH         GRM36CH270J50PT         K22178222         1-         B         e2           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHIP CAP.         0.047uF         10V         B         GRM36B173K10PT         K22108801         1-         A         F3           C 1062         CHIP CAP.         0.0018uF         50V         B         GRM36B182K50PT         K22108802         1-         A         F3           C 1064         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178210         1-         A         F2           C 1068 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>							1	
C 1059         CHIP CAP.         27pF         50V         CH         GRM36CH270J50PT         K22178222         1-         B         e2           C 1060         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHIP CAP.         0.047uF         10V         B         GRM36B473K10PT         K22108801         1-         A         F3           C 1062         CHIP CAP.         0.0018uF         50V         B         GRM36B182K50PT         K22178812         1-         A         F3           C 1064         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178210         1-         A         F2           C 1068 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>							1	
C 1060         CHIP CAP.         0.1 uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1061         CHIP CAP.         0.047uF         10V         B         GRM36B473K10PT         K22108801         1-         A         F3           C 1062         CHIP CAP.         0.0018uF         50V         B         GRM36B182K50PT         K22178812         1-         A         E3           C 1064         CHIP CAP.         0.1 uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1 uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         0.1 uF         10V         B         GRM36CH080D50PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1 uF         10V         B         GRM36B104K10PT         K22108802         1-         A         C2           C 1068         CHIP CAP.         0.2 uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1							1	
C 1062         CHIP CAP.         0.0018uF         50V         B         GRM36B182K50PT         K22178812         1-         A         E3           C 1064         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         8pF         50V         CH         GRM36CH080D50PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22178802         1-         A         C2           C 1068         CHIP CAP.         0.22uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1069         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1070         CHIP CAP.         0.001uF         50V         B         GRM36B104K10PT         K22178809         1-         A         F2           C 1073<							1	
C 1064         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F3           C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         8pF         50V         CH         GRM36CH080D50PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         C2           C 1068         CHIP CAP.         0.22uF         10V         B         GRM36B104K10PT         K22104801         1-         A         F2           C 1069         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1070         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         F2           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         F2           C 1074 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>							1	
C 1065         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1066         CHIP CAP.         8pF         50V         CH         GRM36CH080D50PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         C2           C 1068         CHIP CAP.         0.22uF         10V         B         GRM36B102K50PT         K22104801         1-         A         F2           C 1070         CHIP CAP.         0.01uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         F2           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         F2           C 1074         CHIP CAP.         0.002uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075<							1	
C 1066         CHIP CAP.         8pF         50V         CH         GRM36CH080D50PT         K22178210         1-         B         e2           C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         C2           C 1068         CHIP CAP.         0.22uF         10V         B         GRM36B102K50PT         K22104801         1-         A         F2           C 1070         CHIP CAP.         0.01uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         F2           C 1074         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3							1	
C 1067         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         C2           C 1068         CHIP CAP.         0.22uF         10V         B         GRM39B224K10PT         K22104801         1-         A         F2           C 1069         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1070         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1074         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3								
C 1068         CHIP CAP.         0.22uF         10V         B         GRM39B224K10PT         K22104801         1-         A         F2           C 1069         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1070         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1074         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3								
C 1069         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         B         b3           C 1070         CHIP CAP.         0.1uF         10V         B         GRM36B104K10PT         K22108802         1-         A         F2           C 1073         CHIP CAP.         0.001uF         50V         B         GRM36B102K50PT         K22178809         1-         A         C2           C 1074         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3							1	
C 1073     CHIP CAP.     0.001uF     50V     B     GRM36B102K50PT     K22178809     1- A     C2       C 1074     CHIP CAP.     0.022uF     16V     B     GRM36B223K16PT     K22128806     1- B     b3       C 1075     CHIP CAP.     0.022uF     16V     B     GRM36B223K16PT     K22128806     1- B     b3					В		1	
C 1074         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3           C 1075         CHIP CAP.         0.022uF         16V         B         GRM36B223K16PT         K22128806         1-         B         b3							1	
C 1075   CHIP CAP.   0.022uF   16V   B   GRM36B223K16PT   K22128806   1-   B   b3							1	
, כיוסיסן כוווו סרגו.   סיומו   ביוסיסן ביוסיסט ווידע סיומידע ווידע ביוסיסן ביוווי ביוסיסט ביוסיסט ביוסיסט ביוסי	C 1076	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1- A F2

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
C 1077	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801	VEIXO.	1-	A	F2
C 1077	CHIP CAP.	0.22ur 0.0039uF	50V	В	GRM36B392K50PT	K22104601 K22178816		1-	A	E3
C 1079	CHIP CAP.	0.0033uF	50V	В	GRM36B332K50PT	K22178815		1-	В	b3
C 1080	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Ā	F2
C 1081	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	F2
C 1082	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	c3
C 1083	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801		1-	Α	F2
C 1084	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	G2
C 1085	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	F1
C 1086	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	b3
C 1088	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	A	F3
C 1089	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	A	G2
C 1090	CHIP CAP.	0.22uF 0.022uF	10V 16V	В	GRM39B224K10PT	K22104801		1-	A	F2 F3
C 1091 C 1092	CHIP CAP. CHIP CAP.	0.022uF 0.1uF	10V	B B	GRM36B223K16PT GRM36B104K10PT	K22128806 K22108802		1-	A	F2
C 1092	CHIP CAP.	0.1uF	10V	B	GRM36B104K10PT	K22108802		1-	A	F2
C 1094	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	b3
C 1095	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	Ā	F3
C 1096	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	c3
C 1097	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	b3
C 1098	CHIP CAP.	180pF	25V	CH	GRM36CH181J25PT	K22148201		1-	В	b3
C 1099	CHIP TA.CAP.	22uF	6.3V		TEMSVA0J226M-8R	K78080047		1-	В	f2
C 1101	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f2
C 1102	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801		1-	В	d3
C 1103	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	f3
C 1104	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	f1
C 1105	CHIP CAP.	0.047uF	10V	B	GRM36B473K10PT	K22108801		1-	В	f1
C 1106	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	B B	f1
C 1107	CHIP CAP.	0.047uF 0.1uF	10V 10V	B   B	GRM36B473K10PT GRM36B104K10PT	K22108801 K22108802		1-	В	f1 f1
C 1108	CHIP CAP.	0.1uF 0.1uF	10V	B	GRM36B104K10PT	K22108802		1-	В	f3
C 1110	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	c2
C 1111	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f3
C 1112	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	В	g1
C 1113	CHIP CAP.	100pF	50V	СН	GRM36CH101J50PT	K22178236		1-	В	g1
C 1114	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	В	g1
C 1115	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	f1
C 1116	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		1-	В	f1
C 1117	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	d3
C 1118	CHIP CAP.	0.0022uF	50V	В	GRM36B222K50PT	K22178813		1-	В	f3
C 1119	CHIP CAP.	0.01uF	16V	B	GRM36B103K16PT	K22128804		1-	В	f3
C 1120 C 1122	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	B B	c2
C 1122	CHIP CAP. CHIP CAP.	0.1uF 0.001uF	10V 50V	B B	GRM36B104K10PT GRM36B102K50PT	K22108802 K22178809		1-	В	d3 d4
C 1123	CHIP CAP.	0.001uF	16V	B	GRM36B102K30F1	K22178804		1-	В	f3
C 1125	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	e3
C 1126	CHIP CAP.	0.1uF	10V	B	GRM36B104K10PT	K22108802		1-	В	f1
C 1127	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	f1
C 1128	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	e4
C 1129	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	f3
C 1131	CHIP CAP.	10pF	50V	CH	GRM36CH100D50PT	K22178212		1-	В	f1
C 1132	CHIP CAP.	15pF	50V	CH	GRM36CH150J50PT	K22178216		1-	В	g1
C 1134	CHIP CAP.	1uF	6.3V	B	GRM39B105K6.3PT	K22084801		1-	В	f3
C 1135	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	d3
C 1136	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	h1
C 1137	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	B B	e3
C 1138 C 1139	CHIP CAP. CHIP CAP.	33pF 15pF	50V 50V	CH CH	GRM36CH330J50PT GRM36CH150J50PT	K22178224 K22178216		1-	В	f1 f1
C 1139	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178216 K22178809		1-	В	f3
C 1140	CHIP CAP.	0.1uF	10V	B	GRM36B104K10PT	K22178803		1-	В	g1
C 1142	CHIP CAP.	47pF	50V	СН	GRM36CH470J50PT	K22178228		1-	В	g1
C 1143	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	g1
C 1144	CHIP CAP.	47pF	50V	CH	GRM36CH470J50PT	K22178228		1-	В	g2
C 1145	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	h1
C 1146	CHIP TA.CAP.	22uF	6.3V		TEMSVA0J226M-8R	K78080047		1-	В	e4
C 1147	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	В	e4
C 1148	CHIP CAP.	3pF	50V	CJ	GRM36CJ030C50PT	K22178205		1-	В	f1
C 1149	CHIP CAP.	0.0033uF	50V	В	GRM36B332K50PT	K22178815		1-	В	g2
C 1150	CHIP CAP.	0.001uF	50V	B	GRM36B102K50PT	K22178809		1-	В	f1
C 1151	CHIP CAP.	0.01uF	16V	B	GRM36B103K16PT	K22128804		1-	В	g2
C 1152 C 1153	CHIP CAP. CHIP TA.CAP.	1uF 4.7uF	6.3V 20V	В	GRM39B105K6.3PT TEMSVA1D475M-8R	K22084801 K78130048		1-	B B	g3
C 1153	CHIP TA.CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	d4
0 1133	OTH OAL.	0.00 Tul	J J J V	٦,	CINIVIOUD IUZINUUF I	1122 170003	L			g1

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
C 1156	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	g1
C 1157	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f1
C 1158	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	d3
C 1159	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f1
C 1160	CHIP CAP.	100pF	50V 50V	CH CH	GRM36CH101J50PT	K22178236 K22178236		1-	В	d2 d2
C 1161 C 1162	CHIP CAP.	100pF 100pF	50V	CH	GRM36CH101J50PT GRM36CH101J50PT	K22178236		1-	B B	d2 d2
C 1164	CHIP CAP.	0.1uF	10V	B	GRM36B104K10PT	K22176236 K22108802		1-	В	g1
C 1165	CHIP CAP.	7pF	50V	СН	GRM36CH070D50PT	K22178209		1-	В	f1
C 1166	CHIP CAP.	10pF	50V	CH	GRM36CH100D50PT	K22178212		1-	В	f2
C 1167	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	h1
C 1168	CHIP TA.CAP.	2.2uF	16V		TEMSVA1C225M-8R	K78120015		1-	В	f2
C 1169	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f2
C 1170	CHIP CAP.	5pF	50V	CH	GRM36CH050C50PT	K22178207		1-	В	f2
C 1171	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	g2
C 1172	CHIP TA.CAP.	22uF	4V		TEMSVA0G226M-8R	K78060023		1-	В	g3
C 1173 C 1174	CHIP TA.CAP.	10uF	10V 50V	СН	TEMSVA1A106M-8R	K78100028		1-	B B	h2
C 1174	CHIP CAP.	10pF 10pF	50V	CH	GRM36CH100D50PT GRM36CH100D50PT	K22178212 K22178212		1-	В	f1 g2
C 1178	CHIP CAP.	68pF	50V	CH	GRM36CH680J50PT	K22178212 K22178232		1-	В	g2 g2
C 1179	CHIP CAP.	0.1uF	10V	B	GRM36B104K10PT	K22170232 K22108802		1-	В	f2
C 1180	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	g4
C 1181	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	g2
C 1182	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	g2
C 1183	CHIP CAP.	0.0047uF	25V	В	GRM36B472K25PT	K22148830		1-	В	g2
C 1184	CHIP CAP.	22pF	50V	CH	GRM36CH220J50PT	K22178220		1-	В	g2
C 1185	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805		1-	В	g4
C 1186	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	g2
C 1187	CHIP CAP.	0.47uF 470pF	10V 50V	BJ B	LMK107BJ474KA-T GRM36B471K50PT	K22104803 K22178805		1-	B B	g3 f4
C 1189	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	e2
C 1190	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	g2
C 1191	CHIP TA.CAP.	2.2uF	16V		TEMSVA1C225M-8R	K78120015		1-	В	f2
C 1192	CHIP CAP.	12pF	50V	CH	GRM36CH120J50PT	K22178214		1-	В	g2
C 1193	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	g3
C 1194	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	d1
C 1195	CHIP TA.CAP.	22uF	4V		TEMSVA0G226M-8R	K78060023		1-	В	f3
C 1196	CHIP TA.CAP.	10uF	10V	_	TEMSVA1A106M-8R	K78100028		1-	В	g4
C 1197	CHIP CAP.	1uF 12pF	6.3V 50V	B CH	GRM39B105K6.3PT GRM36CH120J50PT	K22084801 K22178214		1-	B B	f4 d1
C 1199	CHIP CAP.	0.001uF	50V	B	GRM36B102K50PT	K22178214 K22178809		1-	В	e1
C 1200	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	f4
C 1201	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801		1-	В	f3
C 1202	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	d1
C 1203	CHIP CAP.	47pF	50V	CH	GRM36CH470J50PT	K22178228		1-	В	g2
C 1204	CHIP CAP.	2pF	50V	CK	GRM36CK020C50PT	K22178204		1-	В	f2
C 1205	CHIP TA.CAP.	47uF	4V	_	SK7-0G476M-RA	K78060048		1-	В	f2
C 1206	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801		1-	В	f3
C 1207 C 1208	CHIP CAP.	0.001uF 0.0047uF	50V 25V	B B	GRM36B102K50PT GRM36B472K25PT	K22178809 K22148830		1- 1-	B B	c2 g3
C 1208	CHIP CAP.	0.0047uF 0.01uF	16V	B	GRM36B103K16PT	K22128804		1-	В	gs   e2
C 1210	CHIP CAP.	39pF	50V	СН	GRM36CH390J50PT	K22178226		1-	В	f2
C 1211	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	f2
C 1212	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	g3
C 1213	CHIP CAP.	15pF	50V	CH	GRM36CH150J50PT	K22178216		1-	В	c1
C 1214	CHIP CAP.	0.0047uF	25V	В	GRM36B472K25PT	K22148830		1-	В	f2
C 1215	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	c2
C 1216	CHIP TA.CAP.	3.3uF	16V	<sub>B</sub>	TEMSVA1C335M-8R	K78120021 K22128804		1-	В	e2
C 1217 C 1218	CHIP CAP.	0.01uF 0.01uF	16V 16V	B B	GRM36B103K16PT GRM36B103K16PT	K22128804 K22128804		1-	B B	g3 f2
C 1210	CHIP CAP.	0.01uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f4
C 1219	CHIP CAP.	0.001dl 0.0047uF	25V	В	GRM36B472K25PT	K22170009		1-	В	f3
C 1221	CHIP CAP.	0.0047uF	25V	В	GRM36B472K25PT	K22148830		1-	В	f3
C 1222	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	В	c2
C 1223	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	h3
C 1224	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	g3
C 1225	CHIP TA.CAP.	10uF	10V	_	TEMSVA1A106M-8R	K78100028		1-	В	g3
C 1226	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	e2
C 1227 C 1228	CHIP CAP.	0.001uF 1uF	50V 6.3V	B B	GRM36B102K50PT GRM39B105K6.3PT	K22178809 K22084801		1-	B B	e2 f4
C 1220	CHIP CAP.	0.01uF	16V	B	GRM36B103K16PT	K22064601 K22128804		1-	В	e2
C 1230	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	В	c1
C 1231	CHIP CAP.	39pF	50V	СН	GRM36CH390J50PT	K22178226		1-	В	e2

C 1232 C 1233 C 1234 C 1236 C 1237 C 1238	CHIP TA.CAP. CHIP CAP.	10uF							
C 1234 C 1236 C 1237	CHID CAD		10V		TEMSVA1A106M-8R	K78100028	1-	В	g3
C 1236 C 1237	CIIII CAI.	39pF	50V	СН	GRM36CH390J50PT	K22178226	1-	В	c1
C 1237	CHIP CAP.	0.5pF	50V	СК	GRM36CK0R5C50PT	K22178201	1-	В	e1
C 1237	CHIP CAP.	27pF	50V	СН	GRM36CH270J50PT	K22178222	1-	В	e1
C 1238	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	c1
U 1230	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804	1-	В	c1
C 1239	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	В	g4
C 1240	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	В	g4
C 1241	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805	i -	В	e1
C 1242	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	i -	В	c1
C 1243	CHIP CAP.	0.5pF	50V	СK	GRM36CK0R5C50PT	K22178201	i -	В	e1
C 1244	CHIP CAP.	0.047uF	10V	B	GRM36B473K10PT	K22108801	i -	В	g4
C 1244	CHIP CAP.	1pF	50V	CK	GRM36CK010C50PT	K22178202	1-	В	e1
C 1246	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236	1-	В	e1
C 1240	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	c1
C 1247	CHIP CAP.	0.5pF	50V	CK	GRM36CK0R5C50PT	K22178009	1-	В	e1
C 1246	CHIP CAP.	0.5pF 0.1uF	10V	B		K22176201 K22108802	1-	В	e1
			1		GRM36B104K10PT			В	
C 1250	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805	1-		e1
C 1251	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801	1-	В	d1
C 1252	CHIP CAP.	47pF	50V	CH	GRM36CH470J50PT	K22178228	1-	В	b1
C 1253	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	В	d1
C 1254	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805	1-	В	g3
C 1255	CHIP CAP.	2pF	50V	CK	GRM36CK020C50PT	K22178204	1-	В	e1
C 1256	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236	1-	В	e1
C 1257	CHIP CAP.	12pF	50V	CH	GRM36CH120J50PT	K22178214	1-	В	b1
C 1258	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	Α	F1
C 1259	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805	1-	В	e1
C 1260	CHIP CAP.	47pF	50V	CH	GRM36CH470J50PT	K22178228	1-	В	b1
C 1261	CHIP CAP.	18pF	50V	CH	GRM36CH180J50PT	K22178218	1-	В	b1
C 1262	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	d1
C 1263	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804	1-	В	d1
C 1264	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	Α	F1
C 1265	CHIP TA.CAP.	3.3uF	16V		TEMSVA1C335M-8R	K78120021	1-	В	d1
C 1266	CHIP CAP.	10pF	50V	CH	GRM36CH100D50PT	K22178212	1-	В	e1
C 1267	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	Α	G1
C 1268	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804	1-	В	f3
C 1269	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	Α	G1
C 1270	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	e1
C 1271	CHIP CAP.	39pF	50V	СН	GRM36CH390J50PT	K22178226	1-	В	b1
C 1272	CHIP CAP.	220pF	25V	СН	GRM36CH221J25PT	K22148203	1-	В	d1
C 1273	CHIP CAP.	22pF	50V	CH	GRM36CH220J50PT	K22178220	1-	В	e1
C 1274	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	e1
C 1275	CHIP CAP.	0.5pF	50V	СK	GRM36CK0R5C50PT	K22178201	1-	Ā	G1
C 1276	CHIP CAP.	22pF	50V	CH	GRM36CH220J50PT	K22178220	1-	В	a1
C 1277	CHIP CAP.	39pF	50V	CH	GRM36CH390J50PT	K22178226	1-	В	d1
C 1278	CHIP CAP.	33pF	50V	CH	GRM36CH330J50PT	K22178224	1-	В	a1
C 1279	CHIP CAP.	0.5pF	50V	CK	GRM36CK0R5C50PT	K22178201	i -	Ā	G1
C 1280	CHIP CAP.	33pF	50V	CH	GRM36CH330J50PT	K22178224	1-	В	b1
C 1281	CHIP CAP.	220pF	25V	CH	GRM36CH221J25PT	K22148203	1-	В	d1
C 1281	CHIP CAP.		50V	CH	GRM36CH050C50PT	K22146203	1-	В	a1
C 1282	CHIP CAP.	5pF 27pF	50V	CH	GRM36CH270J50PT	K22178227	1-	В	d1
			1	1					
C 1284	CHIP CAP.	0.001uF	50V	B CH	GRM36B102K50PT	K22178809	1-   1-	B B	h3
C 1285	CHIP CAP.	27pF	50V	1	GRM36CH270J50PT	K22178222			a1
C 1286		68pF	50V	СН	GRM36CH680J50PT	K22178232	1-	В	d1
C 1287	CHIP TA.CAP.	10uF	10V	<sub>D</sub>	TEMSVA1A106M-8R	K78100028	1-	В	d1
C 1288	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	h3
C 1289	CHIP CAP.	5pF	50V	CH	GRM36CH050C50PT	K22178207	1-	В	a1
C 1290	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	d1
C 1291	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	d1
C 1292	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	A	G1
C 1293	CHIP CAP.	15pF	50V	CH	GRM36CH150J50PT	K22178216	1-	В	a1
C 1294	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804	1-	В	a1
C 1295	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	a1
C 1296	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	В	e1
C 1297	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801	1-	Α	C2
C 1298	CHIP CAP.	9pF	50V	CH	GRM36CH090D50PT	K22178211	1-	В	g1
C 1299	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802	1-	Α	G3
C 1300	CHIP CAP.	560pF	50V	В	GRM36B561K50PT	K22178806	1-	В	c3
C 1301	CHIP CAP.	1uF	6.3V	В	GRM39B105K6.3PT	K22084801	1-	В	c3
C 1302	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809	1-	В	d2
C 1303	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804	1-	В	e2
C 1304	CHIP TA.CAP.	150uF	4V	1	TEMSVC0G157M12R	K78060034	1-	В	e3
C 1305	CHIP CAP.	390pF	50V	В	GRM36B391K50PT	K22178804	1-	Ā	F3

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
C 1306	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805		1-	В	b3
C 1307	CHIP CAP.	470pF	50V	В	GRM36B471K50PT	K22178805		1-	В	c2
C 1308	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	В	f3
C 1309	CHIP TA.CAP.	1uF	35V		TEMSVA1V105M-8R	K78160032		1-	Α	G3
CD1001	CERAMIC DISC				ECDA450C24	H7901460		1-	В	h2
D 1001	CERAMIC FILTER DIODE				ELFY450D M1FM3-4063	H3900561 G2070804		1-	B B	g3 c3
D 1001	DIODE				1SS400 TE61	G2070604 G2070634		1-	А	G3
D 1002	DIODE				RD5.1UMB2-T1	G2070558		1-	В	c2
D 1004	DIODE				DAN222 TL	G2070174		1-	В	b2
D 1005	DIODE				RD6.8UMB2-T1B	G2070438		1-	В	b2
D 1006	DIODE				DA221 TL	G2070178		1-	Α	G3
D 1007	DIODE				RB751S-40TE61	G2070850		1-	Α	G2
D 1008	DIODE				DA221 TL	G2070178		1-	Α	G2
D 1009	DIODE				HSU277TRF	G2070118		1-	В	c3
D 1010 D 1011	LED DIODE				CL-165HR/YG-D-T UMP11N TN	G2070860 G2070646		1-	A B	G4 f3
D 1011	DIODE				UMP11N TN	G2070646 G2070646		1-	В	f3
D 1012	DIODE				1SS400 TE61	G2070634		1-	В	f2
D 1014	DIODE				HVC350B-TRF	G2070596		1-	В	f1
D 1015	DIODE				DA221 TL	G2070178		1-	В	e3
D 1016	DIODE				DA221 TL	G2070178		1-	В	d3
D 1017	DIODE				HSU277TRF	G2070118		1-	В	g1
D 1018	DIODE				HVC350B-TRF	G2070596		1-	В	g1
D 1019	DIODE				1SS400 TE61	G2070634 G2070634		1-	В	g3
D 1020 D 1021	DIODE				1SS400 TE61 1SS400 TE61	G2070634 G2070634		1-	B B	e3 h1
D 1021	DIODE				HZU4ALL-TR	G2070034 G2070428		1-	В	e4
D 1023	LED				19-215UYOC/S530-A2/TR8	G2070884		1-	A	D1
D 1024	DIODE				DAN222 TL	G2070174		1-	В	f4
D 1025	LED				19-215UYOC/S530-A2/TR8	G2070884		1-	Α	D1
D 1026	DIODE				DAN222 TL	G2070174		1-	В	e1
D 1027	LED				19-215UYOC/S530-A2/TR8	G2070884		1-	A	E1
D 1028 D 1029	LED LED				19-215UYOC/S530-A2/TR8 19-215UYOC/S530-A2/TR8	G2070884 G2070884		1-	A	B1 A1
D 1029	DIODE				DA221 TL	G2070004 G2070178		1-	A B	f4
D 1031	DIODE				DA221 TL	G2070178		1-	В	f3
D 1032	LED				19-215UYOC/S530-A2/TR8	G2070884		1-	Ā	B3
D 1033	DIODE				1SS400 TE61	G2070634		1-	В	f2
D 1034	DIODE				HVC350B-TRF	G2070596		1-	В	e1
D 1035	DIODE				HVC350B-TRF	G2070596		1-	В	e1
D 1037 D 1038	DIODE DIODE				1SS400 TE61 HVC350B-TRF	G2070634 G2070596		1-	B B	g3 e1
D 1038	DIODE				RLS135 TE-11	G2070390 G2070128		1-	В	b1
D 1040	DIODE				DA221 TL	G2070178		1-	В	f3
D 1041	DIODE				HVC350B-TRF	G2070596		1-	В	d1
D 1042	DIODE				RLS135 TE-11	G2070128		1-	В	b1
D 1043	DIODE				HSM88WA TR	G2070168		1-	Α	G1
D 1044	DIODE				RN739F T106	G2070626		1-	В	d1
D 1045 D 1046	SURGE ABSORBER				TVSF0805 19-215UYOC/S530-A2/TR8	Q9000807 G2070884		1-	A A	G1 A3
D 1046	DIODE				1SS400 TE61	G2070634 G2070634		1-	В	c1
D 1048	SURGE ABSORBER				TVSF0805	Q9000807		1-	A	F1
DS1001	LCD				AC057N	G6090157		1-	Α	D2
F 1001	CHIP FUSE	3A			0434 003. 3.0A	Q0000107		1-	Α	F4
FB1001	FERRITE BEADS				BK1005HM102-T	L9190124		1-	A	H2
FB1002 FB1003	FERRITE BEADS FERRITE BEADS				BK1005HM102-T BK1005HM102-T	L9190124 L9190124		1-	A	G2 G2
FB1003	FERRITE BEADS				BK1005HM102-1 BK1005HM102-T	L9190124 L9190124		1-	A A	G2 G2
FB1004	FERRITE BEADS				BK1005LL680-T	L9190127		1-	В	f2
J 1001	CONNECTOR				HEC3604-010110	P0091263		1-	В	d4
J 1002	CONNECTOR				HSJ1594-010055	P1090896		1-	В	a2
J 1003	CONNECTOR				AXK6F10335YP	P0091225		1-	В	e3
J 1004	SPRING CONNECTOR	20.11			FLOOR COOL	R0152490		1-	В	a1
L 1001	M.RFC M.RFC	33uH			FLC32T-330J	L1690221		1- 1-	B B	e3
L 1002 L 1003	M.RFC CHIP COIL	4.7uH 0.056uH			LK1608 4R7K-T LQN21A56NJ04	L1690688 L1690618		1-	В	f1 f2
L 1003	CHIP COIL	0.030uH			LQN21A39NJ04	L1690616		1-	В	f2
L 1005	M.RFC	0.1uH			HK1608 R10J-T	L1690528		1-	В	f1
L 1006	M.RFC	0.1uH			HK1608 R10J-T	L1690528		1-	В	f1
L 1007	M.RFC	0.47uH			LK1608 R47K-T	L1690414		1-	В	g2
L 1008	M.RFC	0.033uH			HK1608 33NJ-T	L1690522		1-	В	g2
L 1009	M.RFC	0.56uH		<u> </u>	LK1608 R56K-T	L1690415		1-	В	f2

### Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
L 1010	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	c2
L 1011	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	c2
L 1012	M.RFC	0.56uH			LK1608 R56K-T	L1690415		1-	В	e2
L 1013	M.RFC	0.022uH			HK1608 22NJ-T	L1690520		1-	В	c1
L 1014 L 1015	M.RFC COIL	0.082uH			LBH1608T82NJ	L1691197 L0022426		1-	B B	e1
L 1015	COIL				E2 0.28-1.0-11TR E2 0.3-0.9-7T-R	L0022426 L0022371		1-   1-	B	c1 b1
L 1016	M.RFC	0.1uH			LBH1608TR10J	L1691198		1-	В	e1
L 1017	M.RFC	0.022uH			LBH1608T22NJ	L1691190		1-	В	e1
L 1019	M.RFC	0.068uH			LBH1608T68NJ	L1691196		1-	В	e1
L 1020	M.RFC	4.7uH			LK2125 4R7K-T	L1690327		1-	Α	F1
L 1021	M.RFC	6.8uH			LK1608 6R8K-T	L1690632		1-	В	e1
L 1022	COIL	0.000			E2 0.3-1.7-8T-L	L0022376		1-	В	b1
L 1023	M.RFC	0.068uH			LBH1608T68NJ	L1691196		1-	В	d1
L 1024 L 1025	M.RFC COIL	0.047uH			LBH1608T47NJ E2 0.3-1.7-8T-L	L1691194 L0022376		1-	B B	d1 b1
L 1025	CHIP COIL	0.068uH			LQN21A68NJ04	L1690605		1-	В	d1
L 1027	COIL	3.000011			E2 0.3-1.7-8T-L	L0022376		1-	В	a1
L 1028	CHIP COIL	0.068uH			LQN21A68NJ04	L1690605		1-	В	d1
L 1029	COIL				E2 0.3-1.7-8T-L	L0022376		1-	В	a1
L 1030	M.RFC	4.7uH			LK1608 4R7K-T	L1690688		1-	В	d1
L 1031	M.RFC	0.022uH			LBH1608T22NJ	L1691190		1-	В	e1
MC1001	MIC. ELEMENT				EM-100PT	M3290029		1-	A	F3
Q 1001 Q 1002	IC   TRANSISTOR				TDA2822D013TR DTC144EE TL	G1091542 G3070075		1-	B B	b2 c4
Q 1002	TRANSISTOR				CPH6102-TL	G3070075 G3070223		1-	В	c2
Q 1003	TRANSISTOR				UMG2N TR	G3070223 G3070088		1-	В	b2
Q 1005	IC IC				TDA7233D-TR	G1091112		1-	В	b3
Q 1006	TRANSISTOR				DTC144EE TL	G3070075		1-	В	c3
Q 1007	TRANSISTOR				2SA1774 TL R	G3117748R		1-	В	c2
Q 1008	TRANSISTOR				CPH6102-TL	G3070223		1-	Α	G3
Q 1009	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	c2
Q 1010 Q 1011	IC IC				AK93C95AF E-1	G1092838		1-	B B	d2 c3
Q 1011 Q 1012	TRANSISTOR				NJM12902V(TE1) DTC144EE TL	G1093592 G3070075		1-	В	c3
Q 1012	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	b2
Q 1013	TRANSISTOR				2SB1201S-TL	G3070195		1-	A	E2
Q 1015	TRANSISTOR				DTC143ZE TL	G3070102		1-	Α	G3
Q 1016	TRANSISTOR				CPH6102-TL	G3070223		1-	В	b2
Q 1017	IC				AN6123MS-TXL	G1093114		1-	В	c3
Q 1018	FET				HN1J02FU(TE85L)	G3070221		1-	A	F2
Q 1019	TRANSISTOR				UMG2N TR NJM12902V(TE1)	G3070088		1-	A	G4 E3
Q 1020 Q 1021	IC IC				NJM12902V(TE1) NJM12904R(TE1)	G1093592 G1093337		1-	A A	F3
Q 1021 Q 1022	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	e2
Q 1023	FET				HN1J02FU(TE85L)	G3070221		1-	A	F2
Q 1024	IC				LC87F74C8A	*		1-	Α	D2
Q 1025	IC				BU4094BCFV-E2	G1093527		1-	Α	E2
Q 1026	FET				HN1J02FU(TE85L)	G3070221		1-	A	F2
Q 1027	IC TRANSISTOR				BU4094BCFV-E2	G1093527		1-	В	d3
Q 1028 Q 1029	TRANSISTOR TRANSISTOR				DTA143EE TL UMG2N TR	G3070252 G3070088		1-   1-	B B	f3 f3
Q 1029 Q 1030	TRANSISTOR				DTC144EE TL	G3070088 G3070075		1-	В	e3
Q 1030	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	f2
Q 1032	TRANSISTOR				DTA143EE TL	G3070252		1-	В	e3
Q 1033	TRANSISTOR				DTC124TE TL	G3070128		1-	В	d3
Q 1034	TRANSISTOR				DTA143EE TL	G3070252		1-	В	e2
Q 1035	TRANSISTOR				DTC144EE TL	G3070075		1-	В	e3
Q 1036	TRANSISTOR				DTA143EE TL	G3070252		1-	В	e2
Q 1037 Q 1038	IC   TRANSISTOR				NJM12904R(TE1) DTC144EE TL	G1093337 G3070075		1-	B B	g3
Q 1038 Q 1039	TRANSISTOR				UMG2N TR	G3070075 G3070088		1-	В	g1 f3
Q 1039	IC				S-80835CNMC-B8U-T2	G1093606		1-	В	d4
Q 1040	ic				MB15A01PFV1-G-BND-EF	G1092545		1-	В	g1
Q 1042	TRANSISTOR				UMW1 TR	G3070078		1-	В	e3
Q 1043	TRANSISTOR				CPH6102-TL	G3070223		1-	В	e3
Q 1044	TRANSISTOR				DTC144EE TL	G3070075		1-	В	f3
Q 1045	IC TRANSPORTED				M62364FP 600D	G1093033		1-	В	c2
Q 1046	TRANSISTOR				2SC5555ZD-TR	G3355557		1-	В	f1
Q 1047 Q 1048	TRANSISTOR				DTA143EE TL S-812C35AUA-C2P-T2	G3070252 G1093672		1-	B B	f3 e4
Q 1048 Q 1049	TRANSISTOR				2SC5555ZD-TR	G1093672 G3355557		1-	В	f1
Q 1049 Q 1050	TRANSISTOR				UMA5N TR	G3070138		1-	В	f3
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**X:** Please contact Vertex Standard

Q 1051       TRANSISTOR       2SC5555ZD-TR       G3355557         Q 1052       FET       2SK2170-TL       G3821708         Q 1053       TRANSISTOR       DTC144EE TL       G3070075         Q 1054       TRANSISTOR       2SC4617 TL R       G3346178R         Q 1055       TRANSISTOR       DTA143EE TL       G3070252	1- 1- 1- 1-	B B	f2
Q 1053       TRANSISTOR       DTC144EE TL       G3070075         Q 1054       TRANSISTOR       2SC4617 TL R       G3346178R         Q 1055       TRANSISTOR       DTA143EE TL       G3070252	1- 1-	B	1 e e e e e
Q 1054         TRANSISTOR         2SC4617 TL R         G3346178R           Q 1055         TRANSISTOR         DTA143EE TL         G3070252	1-		f1
Q 1055   TRANSISTOR   DTA143EE TL   G3070252		В	h1
		В	g2
	1-	В	h1
Q 1056   TRANSISTOR   CPH6202-TL   G3070265   C2070088	1-	B B	f1 f2
Q 1057   TRANSISTOR   UMG2N TR   G3070088   TK10931VT1   G1093013	1-	B	g2
Q 1036   C	1-	В	g2 g1
Q 1060 TRANSISTOR 2SC5555ZD-TR G3355557	1-	B	c1
Q 1061   TRANSISTOR   2SC4915Y(TE85R)   G3349157Y	1-	B	f2
Q 1062 TRANSISTOR 2SC5555ZD-TR G3355557	1-	В	f2
Q 1063   TRANSISTOR     2SA1774 TL R   G3117748R	1-	В	f2
Q 1064   FET   RD01MUS1(TAPE)   G3070321	1-	В	c1
Q 1065   IC   NJM2901V-TE1   G1092779	1-	В	g3
Q 1066   TRANSISTOR   UMW1 TR   G3070078	1-	В	f2
Q 1067   TRANSISTOR     2SA1774 TL R   G3117748R	1-	В	f2
Q 1068   TRANSISTOR   2SC5555ZD-TR   G3355557	1-	B	e1
Q 1069   FET   RD07MVS1(TAPE)   G3070320	1-	A	F1
Q 1070   TRANSISTOR   DTC144EE TL   G3070075   Q 1071   IC   NJM12902V(TE1)   G1093592	1-	A B	F1
Q 1071 IC   NJM12902V(1E1)   G1093392   NJM12904R(TE1)   G1093337	1-	В	g3 f4
Q 1073   TRANSISTOR   DTA143EE TL   G3070252	1-	A	F1
Q 1074   IC   NJM2125F(TAPE)   G1093894	1-	B	d1
Q 1075   TRANSISTOR   2SC5555ZD-TR   G3355557	1-	B	e1
Q 1076 TRANSISTOR 2SC5555ZD-TR G3355557	1-	В	e1
Q 1077   TRANSISTOR     2SA1774 TL R   G3117748R	1-	В	e1
Q 1078 TRANSISTOR UMW1 TR G3070078	1-	В	e2
R 1001   CHIP RES.   4.7   1/16W   5%   RMC1/16S 4R7JTH   J24189066	1-	Α	F3
R 1002   CHIP RES.   4.7   1/16W   5%   RMC1/16S 4R7JTH   J24189066	1-	A	F2
R 1003   CHIP RES.   2.2k   1/16W   5%   RMC1/16S 222JTH   J24189029	1-	В	c4
R 1004   CHIP RES.   10   1/16W   5%   RMC1/16S 100JTH   J24189001   R 1005   CHIP RES.   2.2k   1/16W   5%   RMC1/16S 222JTH   J24189029	1-	B B	a3
R 1005   CHIP RES.   2.2k   1/16W   5%   RMC1/16S 222JTH   J24189029   R 1006   CHIP RES.   4.7k   1/16W   5%   RMC1/16S 472JTH   J24189033	1-	A	G2 G2
R 1007   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037	1-	B	b2
R 1008   CHIP RES.   1k   1/16W   5%   RMC1/16S 102JTH   J24189025	1-	B	c2
R 1009   CHIP RES.   1k   1/16W   5%   RMC1/16S 102JTH   J24189025	1-	B	c2
R 1010 CHIP RES. 2.2k 1/16W 5% RMC1/16S 222JTH J24189029	1-	В	c4
R 1011   CHIP RES.   220   1/16W   5%   RMC1/16S 221JTH   J24189017	1-	Α	G3
R 1012   CHIP RES.   470   1/16W   5%   RMC1/16S 471JTH   J24189021	1-	В	b2
R 1013   CHIP RES.   470   1/16W   5%   RMC1/16S 471JTH   J24189021	1-	В	c3
R 1014 CHIP RES. 150 1/4W 5% RMC1/4 151JATP J24245151	1-	A	G3
R 1015   CHIP RES.   22k   1/16W   5%   RMC1/16S 223JTH   J24189041	1-	B	b2
R 1016   CHIP RES.   2.2   1/4W   5%   RMC1/4 2R2JATP   J24245229	1-	В	c2
R 1017   CHIP RES.   2.2   1/4W   5%   RMC1/4 2R2JATP   J24245229   R 1018   CHIP RES.   39k   1/16W   5%   RMC1/16S 393JTH   J24189044	1-	B B	c2 c3
R 1019 CHIP RES. 1016 1/16W 5% RMC1/16S 103JTH J24189037	1-	В	c3
R 1021   CHIP RES.   100k   1/16W   5%   RMC1/16S 104JTH   J24189049	1-	A	G3
R 1022 CHIP RES. 10k 1/16W 5% RMC1/16S 103JTH J24189037	1-	В	b3
R 1023   CHIP RES.   470k   1/16W   5%   RMC1/16S 474JTH   J24189057	1-	В	c4
R 1024   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037	1-	В	d2
R 1025   CHIP RES.   15k   1/16W   5%   RMC1/16S 153JTH   J24189039	1-	Α	D3
R 1026   CHIP RES.   15k   1/16W   5%   RMC1/16S 153JTH   J24189039	1-	Α	D3
R 1027   CHIP RES.   15k   1/16W   5%   RMC1/16S 153JTH   J24189039	1-	A	D3
R 1028   CHIP RES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1/16W   5%   RMC1/16S 273JTH   J24189047	1-	В	c3
R 1029   CHIP RES.   220   1/16W   5%   RMC1/16S 221JTH   J24189017   R 1030   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037	1-	B	c2 G3
R 1030   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037   R 1031   CHIP RES.   100   1/16W   5%   RMC1/16S 101JTH   J24189013	1-	A B	b2
R 1032   CHIP RES.   100   1/16W   5%   RMC1/16S 1013TH   J24169013   1/16W   5%   RMC1/16S 332JTH   J24189031	1-	В	c2
R 1033   CHIP RES.   15k   1/16W   5%   RMC1/16S 153JTH   J24189039	1-	B	b2
R 1034   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037	1-	B	c1
R 1035   CHIP RES.   22k   1/16W   5%   RMC1/16S 223JTH   J24189041	1-	В	c3
R 1036   CHIP RES.   18   1/16W   5%   RMC1/16S 180JTH   J24189004	1-	Α	G3
R 1037   CHIP RES.   1k   1/16W   5%   RMC1/16S 102JTH   J24189025	1-	Α	G2
R 1038   CHIP RES.   47k   1/16W   5%   RMC1/16S 473JTH   J24189045	1-	В	c3
R 1039   CHIP RES.   82k   1/16W   5%   RMC1/16S 823JTH   J24189048	1-	A	D3
R 1040   CHIP RES.   39k   1/16W   5%   RMC1/16S 393JTH   J24189044   1/16W   5%   RMC1/16S 393JTH   1/16W   5%   RMC1/16S 393JTH   J24189044   1/16W   J24189044   1/16W	1-	A	D3
R 1041   CHIP RES.   22k   1/16W   5%   RMC1/16S 223JTH   J24189041   1/16W   5%   PMC1/16S 103 JTH   J24189037	1-	A	D3
R 1042   CHIP RES.   10k   1/16W   5%   RMC1/16S 103JTH   J24189037   R 1043   CHIP RES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042	1-	A B	D3 c3
R 1043   CHIP RES.   27k   1/16W   5%   RMC1/16S 2/33TH   J24169042   R 1044   CHIP RES.   47k   1/16W   5%   RMC1/16S 473JTH   J24189045	1-	A	C3
R 1046   CHIP RES.   4.7k   1/16W   5%   RMC1/16S 472JTH   J24189033	1-	Â	G2
R 1047   CHIP RES.   47k   1/16W   5%   RMC1/16S 473JTH   J24189045	1-	A	C3

R 1049	DESCRIPTION CHIP RES.	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N		LOT		LAY ADR
R 1049	OTHER INDO.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	VERS.	1-	В	c3
	CHIP RES.	47k	1/16W	5%	RMC1/16S 103JTH RMC1/16S 473JTH	J24189037		1-	В	c3
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	c3
	CHIP RES.	120k	1/16W	5%	RMC1/16S 124JTH	J24189050		1-	В	c3
	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	d3
R 1053	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	Α	F3
R 1054	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	Α	G3
	CHIP RES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	В	b3
	CHIP RES.	2.2M	1/16W	5%	RMC1/16S 225JTH	J24189065		1-	В	d3
	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	A	F2
	CHIP RES.	5.6k	1/16W	5%	RMC1/16S 562JTH	J24189034		1-	A	G2
	CHIP RES. CHIP RES.	330 330	1/16W 1/16W	5% 5%	RMC1/16S 331JTH RMC1/16S 331JTH	J24189019 J24189019		1- 1-	A A	G4 G4
	CHIP RES.	47k	1/16W	5%	RMC1/16S 3313TH	J24189045		1-	A	C2
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	F3
	CHIP RES.	820	1/16W	5%	RMC1/16S 821JTH	J24189024		1-	A	E3
	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	G2
R 1066	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Α	F3
R 1067	CHIP RES.	6.8k	1/16W	5%	RMC1/16S 682JTH	J24189035		1-	В	b3
R 1068	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	Α	F3
	CHIP RES.	27k	1/16W	5%	RMC1/16S 273JTH	J24189042		1-	Α	F3
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	A	F2
	CHIP RES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	В	e2
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	A	F2
	CHIP RES.	10k	1/16W 1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	C2
	CHIP RES. CHIP RES.	10k 47k	1/16W	5% 5%	RMC1/16S 103JTH RMC1/16S 473JTH	J24189037 J24189045		1- 1-	B A	b3 F2
	CHIP RES.	1.8k	1/16W	5%	RMC1/16S 4/33111	J24189028		1-	A	G2
	CHIP RES.	82k	1/16W	5%	RMC1/16S 823JTH	J24189048		1-	Â	C2
	CHIP RES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		i-	В	e2
	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Ā	F2
R 1081	CHIP RES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		1-	В	b3
R 1082	CHIP RES.	6.8k	1/16W	5%	RMC1/16S 682JTH	J24189035		1-	Α	G2
	CHIP RES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	Α	C2
	CHIP RES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		1-	В	b3
	CHIP RES.	680	1/16W	5%	RMC1/16S 681JTH	J24189023		1-	A	E3
	CHIP RES.	1.8k	1/16W	5%	RMC1/16S 182JTH	J24189028		1-	A	G2
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	B B	c3
	CHIP RES. CHIP RES.	39k 2.2k	1/16W 1/16W	5% 5%	RMC1/16S 393JTH RMC1/16S 222JTH	J24189044 J24189029		1- 1-	А	b3 F2
	CHIP RES.	2.2k 2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	F2
	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	F2
	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	A	F3
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Α	F3
R 1097	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Α	F3
	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Α	F2
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	Α	F2
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	Α	F2
	CHIP RES.	180k	1/16W	5%	RMC1/16S 184JTH	J24189052		1-	В	b3
	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	A	F3
	CHIP RES. CHIP RES.	1.2k 10k	1/16W 1/16W	5% 5%	RMC1/16S 122JTH RMC1/16S 103JTH	J24189026 J24189037		1-     1-	A A	G2 D1
	CHIP RES.	10k 10k	1/16W	5% 5%	RMC1/16S 1033TH	J24189037		1-	В	b3
	CHIP RES.	100k	1/16W	5%	RMC1/16S 1033111	J24189049		1-	A	F2
	CHIP RES.	6.8k	1/16W	5%	RMC1/16S 682JTH	J24189035		i-	A	G2
	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		i-	A	D2
	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	b3
	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Ā	E2
R 1112	CHIP RES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	Α	F2
	CHIP RES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	Α	F1
	CHIP RES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	Α	G2
	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	A	F2
	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	E1
	CHIP RES.	47k	1/16W 1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	F3 F3
	CHIP RES. CHIP RES.	39k	1/16W 1/16W	5% 5%	RMC1/16S 393JTH RMC1/16S 124JTH	J24189044		1- 	A	F3
	CHIP RES.	120k 47k	1/16W	5% 5%	RMC1/16S 124JTH RMC1/16S 473JTH	J24189050 J24189045		1-     1-	A A	F3
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	В	b3
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	A	F2
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	В	b3
	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	Ā	F2
R 1126	CHIP RES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	Α	F3
R 1127	CHIP RES.	120k	1/16W	5%	RMC1/16S 124JTH	J24189050		1-	В	b3

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 1128	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	В	b3
R 1129	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	b3
R 1130	CHIP RES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	c3
R 1132	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	d2
R 1133	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	d2
R 1134	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	d2
R 1135	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d3
R 1136	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	f2
R 1137	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	f3
R 1138	CHIP RES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	d3
R 1139	CHIP RES.	6.8k	1/16W 1/16W	5%	RMC1/16S 682JTH	J24189035		1-	В	f1
R 1140	CHIP RES.	47k	.,	5%	RMC1/16S 473JTH	J24189045		1-	B B	d3
R 1141 R 1142	CHIP RES. CHIP RES.	180k   4.7k	1/16W 1/16W	5% 5%	RMC1/16S 184JTH RMC1/16S 472JTH	J24189052 J24189033		1-	В	d3 f1
R 1142	CHIP RES.	22k	1/16W	5%	RMC1/16S 4723TH	J24189041		1-	В	f1
R 1144	CHIP RES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	В	f3
R 1145	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	В	f3
R 1146	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	e3
R 1147	CHIP RES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021		1-	В	f1
R 1148	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g3
R 1149	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	g1
R 1150	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	g1
R 1151	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	e3
R 1152	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	f3
R 1153	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	f1
R 1154	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	g1
R 1155	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	f3
R 1156	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	e3
R 1157	CHIP RES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	d3
R 1158	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	f3
R 1161	CHIP RES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	c2
R 1162 R 1163	CHIP RES. CHIP RES.	100	1/16W 1/16W	5% 5%	RMC1/16S 101JTH RMC1/16S 101JTH	J24189013 J24189013		1-	B B	c2 c2
R 1164	CHIP RES.	100 33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	e3
R 1165	CHIP RES.	100k	1/16W	5%	RMC1/16S 3333111	J24189049		1-	В	e3
R 1166	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	g3
R 1167	CHIP RES.	27k	1/16W	5%	RMC1/16S 273JTH	J24189042		1-	В	g3
R 1168	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g3
R 1169	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	e3
R 1170	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	f1
R 1171	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	g3
R 1172	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	g1
R 1173	CHIP RES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	h1
R 1174	CHIP RES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		1-	В	e3
R 1175	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	g3
R 1176	CHIP RES.	1.8k	1/16W	5%	RMC1/16S 182JTH	J24189028		1-	В	f1
R 1177	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	g3
R 1178	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	d3
R 1179	CHIP RES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	h1
R 1180	CHIP RES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	d2
R 1181 R 1182	CHIP RES. CHIP RES.	2.2k 2.2k	1/16W 1/16W	5% 5%	RMC1/16S 222JTH RMC1/16S 222JTH	J24189029 J24189029		1-   1-	B B	d2 d2
R 1183	CHIP RES.	2.2k 2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029 J24189029		1-	В	d2 d2
R 1184	CHIP RES.	220	1/16W	5%	RMC1/16S 2223111	J24189017		1-	В	f1
R 1185	CHIP RES.	680	1/16W	5%	RMC1/16S 681JTH	J24189023		1-	В	f1
R 1186	CHIP RES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	g3
R 1187	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	e4
R 1188	CHIP RES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	d2
R 1190	CHIP RES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	d2
R 1191	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g3
R 1192	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	f1
R 1193	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	f1
R 1194	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g1
R 1195	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g3
R 1196	CHIP RES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	g3
R 1197	CHIP RES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	В	g3
R 1198	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g1
R 1199	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	g2
R 1200	CHIP RES.	150	1/16W 1/16W	5%	RMC1/16S 151JTH	J24189015		1-	В	f1
R 1201 R 1202	CHIP RES. CHIP RES.	4.7k 18	1/16W	5% 5%	RMC1/16S 472JTH RMC1/16S 180JTH	J24189033 J24189004		1-   1-	B B	h1 f1
R 1202	CHIP RES.	22k	1/16W	5%	RMC1/16S 1603TH	J24189041		1-	В	h1
R 1203	CHIP RES.	470	1/16W	5%	RMC1/16S 2233111	J24189021		1-	В	f2
	J 31.111 1.120.		1, 10 44	J 70		32 . 100021		_ '-		

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 1205	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	f2
R 1203	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 4733111	J24189029		1-	В	f2
R 1207	CHIP RES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	В	f1
R 1208	CHIP RES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	В	g2
R 1200	CHIP RES.	18	1/16W	5%	RMC1/16S 180JTH	J24189004		1-	В	f2
R 1210	CHIP RES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	В	f2
R 1210	CHIP RES.	12k	1/16W	5%	1	J24189038		1-	В	f2
	CHIP RES.	1	1	1	RMC1/16S 123JTH			1		
R 1212		18	1/16W	5%	RMC1/16S 180JTH	J24189004		1-	В	f2
R 1213	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	f1
R 1214	CHIP RES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	В	g2
R 1215	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g2
R 1216	CHIP RES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	f2
R 1217	CHIP RES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	g2
R 1218	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	f4
R 1219	CHIP RES.	3.9k	1/16W	5%	RMC1/16S 392JTH	J24189032		1-	В	g2
R 1220	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	f1
R 1221	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	Α	D1
R 1222	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g2
R 1223	CHIP RES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	g3
R 1224	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	f4
R 1225	CHIP RES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g4
R 1226	CHIP RES.	56k	1/16W	5%	RMC1/16S 563JTH	J24189046		1-	В	g4
R 1227	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	Α	Ď1
R 1228	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	g4
R 1229	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	e1
R 1230	CHIP RES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	e1
R 1231	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	Α	E1
R 1232	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g3
R 1233	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	f1
R 1234	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	В	f2
R 1235	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	g3
R 1236	CHIP RES.	27k	1/16W	5%	RMC1/16S 273JTH	J24189042		1-	В	d1
R 1237	CHIP RES.	220	1/16W	5%	RMC1/16S 2733111	J24189017		1-	В	d1
R 1237	CHIP RES.	470k	1/16W	5%	RMC1/16S 2213111	J24189057		1-	В	f3
R 1230	CHIP RES.		1/16W	5%	1			1-	В	f4
	CHIP RES.	10k	1/16W	1	RMC1/16S 103JTH	J24189037		1	В	
R 1240		68k		5%	RMC1/16S 683JTH	J24189047		1-		f4
R 1241	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	В	h2
R 1242	CHIP RES.	5.6k	1/16W	5%	RMC1/16S 562JTH	J24189034		1-	В	e2
R 1243	CHIP RES.	150	1/16W	5%	RMC1/16S 151JTH	J24189015		1-	В	f3
R 1244	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	g3
R 1245	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	e2
R 1246	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	f3
R 1247	CHIP RES.	180k	1/16W	5%	RMC1/16S 184JTH	J24189052		1-	В	g3
R 1248	CHIP RES.	33	1/16W	5%	RMC1/16S 330JTH	J24189007		1-	В	e2
R 1249	CHIP RES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	c2
R 1250	CHIP RES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		1-	В	f2
R 1251	CHIP RES.	27k	1/16W	5%	RMC1/16S 273JTH	J24189042		1-	В	g3
R 1252	CHIP RES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	В	f2
R 1253	CHIP RES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	В	f3
R 1254	CHIP RES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	В	f3
R 1255	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	f4
R 1256	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	f4
R 1257	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	g3
R 1258	CHIP RES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	g3
R 1259	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	c1
R 1260	CHIP RES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	c1
R 1261	CHIP RES.	560	1/16W	5%	RMC1/16S 561JTH	J24189022		1-	В	e2
R 1262	CHIP RES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	В	e2
R 1263	CHIP RES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	В	f3
R 1264	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	f2
R 1265	CHIP RES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	В	e2
R 1266	CHIP RES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	g3
R 1267	CHIP RES.	100k	1/16W	5%	RMC1/16S 2233111	J24189049		1-	В	c1
R 1268	CHIP RES.	47k	1/16W	5%	RMC1/16S 1043111	J24189045		1-	В	f4
R 1266	CHIP RES.	82k	1/16W	1	1	J24189048		1-	В	
		1		5%	RMC1/16S 823JTH			1		f2
R 1270	CHIP RES.	820	1/16W	5%	RMC1/16S 821JTH	J24189024		1-	В	e1
R 1271	CHIP RES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	h3
R 1272	CHIP RES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	g4
R 1273	CHIP RES.	47	1/10W	5%	RMC1/10T 470J	J24205470		1-	В	c2
R 1274	CHIP RES.	2.7k	1/16W	5%	RMC1/16S 272JTH	J24189030		1-	В	f2
R 1275	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	f2
R 1276	CHIP RES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	e1
R 1277	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	h3

R1276   CHIP RES.   220k	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R1280   CHIP RES.		CHIP RES.				RMC1/16S 223JTH				В	g3
R 1282 CHIP RES.						l I					
R 1282 CHIP RES. 47k 1/16W 5% RMC/16S 27JTH J24189053 1 1 8 6 94 R1284 CHIP RES. 10k 116W 5% RMC/16S 27JTH J24189053 1 1 8 6 94 R1284 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189053 1 1 8 6 94 R1284 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189053 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189053 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189059 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189059 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189059 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189059 1 1 8 6 11 R1285 CHIP RES. 10k 116W 5% RMC/16S 10JTH J24189059 1 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						l I					
R 1288 CHIP RES			1			l I					
R 1284   CHIP RES						l I					1
R 1286 CHIP RES.						l I					
R 1286 CHIP RES.						l I					1
R 1288 CHIP RES						l I					l .
R 1289 CHIP RES.	R 1287	CHIP RES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	e1
R 1290 CHIP RES. 47K 1/16W 5% RMC/116S 10JH J24189045 1. B el el R 1292 CHIP RES. 100K 1/16W 5% RMC/116S 10JH J24189047 1. B el el R 1292 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189047 1. B el el R 1292 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189047 1. B el el R 1293 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189043 1. B el el R 1293 CHIP RES. 220k 1/16W 5% RMC/116S 10JH J24189043 1. B el el R 1295 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189043 1. B el el R 1295 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189043 1. B el el R 1295 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189043 1. B el el R 1295 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189040 1. B el el R 1295 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189040 1. B el el R 1300 CHIP RES. 30 M 1/16W 5% RMC/116S 30JH J24189040 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 30JH J24189040 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el R 1300 CHIP RES. 10K 1/16W 5% RMC/116S 10JH J24189049 1. B el R 1300 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J24189049 1. B el R 1300 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J24189049 1. B el R 1300 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J24189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1. A GI R 1311 CHIP RES. 30K 1/16W 5% RMC/116S 10JH J34189049 1.						l I					l .
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R 1304 CHIP RES. 680 1/16W 5% RMC1/16S 681/TH J24189037 1- A G1 R 1306 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1306 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189037 1- B I A G1 R 1307 CHIP RES. 33k 1/16W 5% RMC1/16S 103,TH J24189037 1- B I H R 1309 CHIP RES. 33k 1/16W 5% RMC1/16S 33,TH J24189037 1- A G1 R 1311 CHIP RES. 33k 1/16W 5% RMC1/16S 33,TH J24189043 1- A G1 R 1311 CHIP RES. 33k 1/16W 5% RMC1/16S 33,TH J24189043 1- A G1 R 1311 CHIP RES. 11k 1/16W 5% RMC1/16S 33,TH J24189043 1- A G1 R 1313 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189043 1- A G1 R 1313 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189043 1- A G1 R 1313 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189043 1- A G1 R 1313 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1313 CHIP RES. 10k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1314 CHIP RES. 150k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1313 CHIP RES. 150k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1313 CHIP RES. 150k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1313 CHIP RES. 15k 1/16W 5% RMC1/16S 103,TH J24189037 1- A G1 R 1313 CHIP RES. 15k 1/16W 5% RMC1/16S 133,TH J24189037 1- A G1 R 1313 CHIP RES. 33k 1/16W 5% RMC1/16S 133,TH J24189037 1- A G1 R 1313 CHIP RES. 33k 1/16W 5% RMC1/16S 33,TH J24189037 1- A G1 R 1313 CHIP RES. 33k 1/16W 5% RMC1/16S 33,TH J24189037 1- A G1 R 1313 CHIP RES. 15k 1/16W 5% RMC1/16S 33,TH J24189039 1- B G1 R 1313 CHIP RES. 15k 1/16W 5% RMC1/16S 133,TH J24189039 1- B G1 R 1322 CHIP RES. 15k 1/16W 5% RMC1/16S 133,TH J24189039 1- B G1 R 1322 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1322 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1322 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1322 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1323 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1333 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1333 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B G1 R 1333 CHIP RES. 15k 1/16W 5% RMC1/16S 153,TH J24189039 1- B						l I					l .
R1905   CHIP RES.   10k						l I					1
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R1307   CHIP RES.   10k						l I					1
R 13190 CHIP RES. 33k 11/6W 5% RMC1/16S 333JTH J24189043 1. A G1 R 1311 CHIP RES. 33k 11/6W 5% RMC1/16S 333JTH J24189043 1. A G1 R 1311 CHIP RES. 1k 11/6W 5% RMC1/16S 333JTH J24189043 1. A G1 R 1311 CHIP RES. 1k 11/6W 5% RMC1/16S 133JTH J2418905 1. B 14 R 1313 CHIP RES. 10k 11/6W 5% RMC1/16S 103JTH J24189037 1. A G1 R 1314 CHIP RES. 10k 11/6W 5% RMC1/16S 103JTH J24189037 1. B 1/3 CHIP RES. 150k 11/6W 5% RMC1/16S 103JTH J24189037 1. B 1/3 CHIP RES. 150k 11/6W 5% RMC1/16S 103JTH J24189037 1. B 1/3 R 1316 CHIP RES. 150k 11/6W 5% RMC1/16S 103JTH J24189037 1. B 1/3 R 1316 CHIP RES. 150k 11/6W 5% RMC1/16S 103JTH J24189037 1. B 1/3 R 1316 CHIP RES. 150k 11/6W 5% RMC1/16S 103JTH J24189037 1. A G1 R 1317 CHIP RES. 33k 11/6W 5% RMC1/16S 103JTH J24189043 1. A G1 R 1317 CHIP RES. 33k 11/6W 5% RMC1/16S 33JTH J24189043 1. A G1 R 1319 CHIP RES. 33k 11/6W 5% RMC1/16S 33JTH J24189043 1. A G1 R 1323 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189049 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322 CHIP RES. 15k 11/6W 5% RMC1/16S 15JTH J24189009 1. B 1/3 R 1322						l I					1
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R 1327 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B e2 R1328 CHIP RES. 15k 1/16W 5% RMC1/16S 393JTH J24189039 1- B e2 R1329 CHIP RES. 39k 1/16W 5% RMC1/16S 393JTH J24189044 1- B e2 R1330 CHIP RES. 39k 1/16W 5% RMC1/16S 393JTH J24189033 1- B c2 R1331 CHIP RES. 330 1/16W 5% RMC1/16S 472JTH J24189039 1- B c3 RMC1/16S 393JTH J24189039 1- B c3 RMC1/16S 393JTH J24189039 1- B c3 RMC1/16S 153JTH J24189049 1- B c3 RMC1/16S 153JTH J24189049 1- B c3 RMC1/16S J73JTH J24189070 1- B c2 R1336 CHIP RES. 0 1/16W 5% RMC1/16S 22JTH J24189070 1- B c2 R1336 CHIP RES. 22k 1/16W 5% RMC1/16S 22JTH J24189041 1- B e1 R1337 CHIP RES. 47k 1/16W 5% RMC1/16S 23JTH J24189041 1- B e1 R1337 CHIP RES. 47k 1/16W 5% RMC1/16S 373JTH J24189045 1- A G3 R1338 CHIP RES. 0 1/16W 5% RMC1/16S 373JTH J24189040 1- B e1 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189040 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189039 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189040 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189040 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189040 1- B c2 R1343 CHIP RES. 27k 1/16W 5% RMC1/16S 274JTH J24189050 1- B c1 R1343 CHIP RES. 27k 1/16W 5% RMC1/16S 274JTH J24189050 1- B c1 R1400 R140 R140 R140 R140 R140 R140 R1	R 1324	CHIP RES.	39	1/4W	5%	RMC1/4 390JATP	J24245390		1-	В	
R 1328 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B e2 R1329 CHIP RES. 39k 1/16W 5% RMC1/16S 393JTH J24189044 1- B e2 R1330 CHIP RES. 4.7k 1/16W 5% RMC1/16S 393JTH J24189044 1- B c2 R1331 CHIP RES. 330 1/16W 5% RMC1/16S 373JTH J24189033 1- B c2 R1331 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B d1 R1332 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B d1 R1332 CHIP RES. 100k 1/16W 5% RMC1/16S 153JTH J24189049 1- B f3 R1334 CHIP RES. 3.3M 1/16W 5% RMC1/16S 10AJTH J24189049 1- B f3 R1335 CHIP RES. 0 1/16W 5% RMC1/16S 395JTH J24189040 1- B c2 R1335 CHIP RES. 0 1/16W 5% RMC1/16S 293JTH J24189070 1- B c2 R1336 CHIP RES. 47k 1/16W 5% RMC1/16S 223JTH J24189045 1- A G3 R1338 CHIP RES. 47k 1/16W 5% RMC1/16S 223JTH J24189045 1- A G3 R1338 CHIP RES. 0 1/16W 5% RMC1/16S 473JTH J24189045 1- A G3 R1339 CHIP RES. 0 1/16W 5% RMC1/16S 473JTH J24189045 1- A G3 R1339 CHIP RES. 27k 1/16W 5% RMC1/16S 373JTH J24189042 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 373JTH J24189042 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 373JTH J24189042 1- B c2 R1340 CHIP RES. 270k 1/16W 5% RMC1/16S 153JTH J24189042 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 373JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B b2 R1342 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189070 1- B			1			l I					
R 1329 CHIP RES. 39k 1/16W 5% RMC1/16S 393.JTH J24189044 1- B e2 R 1330 CHIP RES. 330 1/16W 5% RMC1/16S 373.JTH J24189033 1- B c2 R 1331 CHIP RES. 330 1/16W 5% RMC1/16S 153.JTH J24189019 1- B c3 R 1332 CHIP RES. 15k 1/16W 5% RMC1/16S 153.JTH J24189039 1- B d1 R 1333 CHIP RES. 100k 1/16W 5% RMC1/16S 153.JTH J24189039 1- B d1 R 1333 CHIP RES. 3.3M 1/16W 5% RMC1/16S 104.JTH J24189049 1- B d3 R 1335 CHIP RES. 0 1/16W 5% RMC1/16S 393.JTH J24189049 1- B c2 R 1336 CHIP RES. 22k 1/16W 5% RMC1/16S 393.JTH J24189070 1- B c2 R 1336 CHIP RES. 22k 1/16W 5% RMC1/16S 393.JTH J24189041 1- B e1 R 1336 CHIP RES. 22k 1/16W 5% RMC1/16S 393.JTH J24189045 1- A G3 R 1338 CHIP RES. 0 1/16W 5% RMC1/16S 273.JTH J24189045 1- A G3 R 1339 CHIP RES. 0 1/16W 5% RMC1/16S JPTH J24189070 1- B c2 R 1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273.JTH J24189045 1- A D3 R 1339 CHIP RES. 27k 1/16W 5% RMC1/16S 373.JTH J24189045 1- B c2 R 1342 CHIP RES. 270k 1/16W 5% RMC1/16S 273.JTH J24189039 1- B b2 R 1342 CHIP RES. 0 1/16W 5% RMC1/16S 273.JTH J24189039 1- B b2 R 1342 CHIP RES. 0 1/16W 5% RMC1/16S 274.JTH J24189039 1- B b2 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 274.JTH J24189039 1- B b2 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 274.JTH J24189070 1- B c1 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 274.JTH J24189070 1- B c1 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 274.JTH J24189070 1- B b1 TACT SWITCH SI003 ROTARY ENCODER THOUS TACT SWITCH SKQTLA N5090110 1- B b1 TACT SWITCH SKQTLA N5090100 1- B b1 TACT SWITCH			1								
R 1330 CHIP RES. 4.7k 1/16W 5% RMC1/16S 472JTH J24189033 1- B c2 R1331 CHIP RES. 330 1/16W 5% RMC1/16S 331JTH J24189019 1- B c3 RMC1/16S 153JTH J24189019 1- B c3 RMC1/16S 153JTH J24189019 1- B d1 R1333 CHIP RES. 100k 1/16W 5% RMC1/16S 104JTH J24189049 1- B f3 R1334 CHIP RES. 3.3M 1/16W 5% RMC1/16S 104JTH J24189049 1- B f3 R1334 CHIP RES. 0 1/16W 5% RMC1/16S J9TH J24189070 1- B c2 R1336 CHIP RES. 22k 1/16W 5% RMC1/16S 223JTH J24189070 1- B e1 R1337 CHIP RES. 22k 1/16W 5% RMC1/16S 223JTH J24189041 1- B e1 R1337 CHIP RES. 0 1/16W 5% RMC1/16S J9TH J24189045 1- A G3 R1338 CHIP RES. 0 1/16W 5% RMC1/16S J9TH J24189045 1- A G3 R1339 CHIP RES. 27k 1/16W 5% RMC1/16S J9TH J24189070 1- A D3 R1339 CHIP RES. 27k 1/16W 5% RMC1/16S J9TH J24189070 1- B c2 R1340 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189042 1- B c2 R1340 CHIP RES. 270k 1/16W 5% RMC1/16S 273JTH J24189039 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S 153JTH J24189039 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b2 R1342 CHIP RES. 270k 1/16W 5% RMC1/16S J9TH J24189070 1- B b1 R14 R14 R14 R14 R14 R14 R14 R14 R14 R1									1-		
R 1331 CHIP RES.									1-		
R 1332 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189049 1- B 63 RMC1/16S 104JTH J24189049 1- B 63 RMC1/16S 335JTH J24189049 1- B 63 RMC1/16S 335JTH J24189049 1- B 63 RMC1/16S 335JTH J24189040 1- B 63 RMC1/16S 335JTH J24189070 1- B 62 RMC1/16S JPTH J24189070 1- B 61 RMC1/16S JPTH J24189070 1- A G3 RMC1/16S JPTH J24189070 1- B 62 RMC1/16S JPTH J24189070 1- B 61 RMC1/16S JPTH J24189070 JPTH J24189070 JPTH J2418907											
R 1333									1		1
R 1334 CHIP RES. 3.3M 1/16W 5% RMC1/16S 335JTH J24189070 1- B C2 R 1335 CHIP RES. 22k 1/16W 5% RMC1/16S 223JTH J24189070 1- B C2 R 1336 CHIP RES. 47k 1/16W 5% RMC1/16S 223JTH J24189041 1- A G3 R 1337 CHIP RES. 47k 1/16W 5% RMC1/16S 223JTH J24189045 1- A G3 R 1338 CHIP RES. 0 1/16W 5% RMC1/16S 473JTH J24189070 1- A D3 R 1339 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189070 1- B C2 R 1340 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B b2 R 1342 CHIP RES. 270k 1/16W 5% RMC1/16S 153JTH J24189039 1- B b2 R 1342 CHIP RES. 0 1/16W 5% RMC1/16S 274JTH J24189054 1- B f2 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 153JTH J24189050 1- B f2 S 1001 TACT SWITCH SKQTLA N5090110 1- B e1 S 1001 TACT SWITCH SKQTLA N5090110 1- B b1 S 1002 TACT SWITCH SKQTLA N5090110 1- B b1 TH1001 THERMISTOR THERMISTO						l I			1		
R 1335   CHIP RES.   0									1	l	
R 1337         CHIP RES.         47k         1/16W         5%         RMC1/16S 473JTH         J24189045         1- A G3           R 1338         CHIP RES.         0         1/16W         5%         RMC1/16S JPTH         J24189070         1- A D3           R 1339         CHIP RES.         27k         1/16W         5%         RMC1/16S 273JTH         J24189042         1- B C2           R 1340         CHIP RES.         15k         1/16W         5%         RMC1/16S 153JTH         J24189039         1- B b2           R 1342         CHIP RES.         270k         1/16W         5%         RMC1/16S 274JTH         J24189054         1- B b2           R 1343         CHIP RES.         0         1/16W         5%         RMC1/16S 274JTH         J24189054         1- B b2           R 1343         CHIP RES.         0         1/16W         5%         RMC1/16S JPTH         J24189054         1- B b2           R 1343         CHIP RES.         0         1/16W         5%         RMC1/16S JPTH         J24189054         1- B b2           R 1001         TACT SWITCH         SKQTLA         N5090110         1- B b1         1- B b1           S 1002         TACT SWITCH         SKQTLA         N5090110         1- B b2 </td <td>R 1335</td> <td></td> <td></td> <td></td> <td>5%</td> <td>RMC1/16S JPTH</td> <td></td> <td></td> <td>1-</td> <td>В</td> <td></td>	R 1335				5%	RMC1/16S JPTH			1-	В	
R 1338									1		
R 1339 CHIP RES. 27k 1/16W 5% RMC1/16S 273JTH J24189042 1- B C2 R 1340 CHIP RES. 15k 1/16W 5% RMC1/16S 153JTH J24189039 1- B b2 R 1342 CHIP RES. 270k 1/16W 5% RMC1/16S 274JTH J24189054 1- B f2 R 1343 CHIP RES. 0 1/16W 5% RMC1/16S 274JTH J24189070 1- B e1 S 1001 TACT SWITCH SKQTLA N5090110 1- B b1 SKQTLA N5090110 1- B c1 S 1002 TACT SWITCH SKQTLA N5090110 1- B c1 TP90D281NAE20 RY-7499 Q9000808 1- B a3 TH1001 THERMISTOR TH1002 THERMISTOR TH1003						l I			1		1
R 1340         CHIP RES.         15k         1/16W         5%         RMC1/16S 153JTH         J24189039         1-         B         b2           R 1342         CHIP RES.         270k         1/16W         5%         RMC1/16S 274JTH         J24189054         1-         B         f2           R 1343         CHIP RES.         0         1/16W         5%         RMC1/16S 274JTH         J24189070         1-         B         f2           S 1001         TACT SWITCH         SKQTLA         N5090110         1-         B         b1           S 1002         TACT SWITCH         SKQTLA         N5090110         1-         B         c1           S 1003         ROTARY ENCODER         TP90D281NAE20 RY-7499         Q9000808         1-         B         a3           TH1001         THERMISTOR         ERTJOER103J         G9090119         1-         B         b3           TH1003         THERMISTOR         TBPS1R473K475H5Q         G9090085         1-         A         F1           X 1001         XTAL SMD-49TA         7.4MHZ         7.4MHZ         H0103285         1-         B         d2           X 1001         XTAL TOP-B         17.475MHz         17.475MHZ         H0103231						l I			1	l	
R 1342       CHIP RES.       270k       1/16W       5%       RMC1/16S 274JTH       J24189054       1-       B       f2         R 1343       CHIP RES.       0       1/16W       5%       RMC1/16S JPTH       J24189070       1-       B       e1         S 1001       TACT SWITCH       SKQTLA       N5090110       1-       B       b1         S 1002       TACT SWITCH       SKQTLA       N5090110       1-       B       c1         S 1003       ROTARY ENCODER       TP90D281NAE20 RY-7499       Q9000808       1-       B       a3         TH1001       THERMISTOR       ERTJ0ER103J       G9090119       1-       B       b3         TH1002       THERMISTOR       TBPS1R473K475H5Q       G9090068       1-       A       F1         TH1003       THERMISTOR       TBPS1R223K460H5Q       G9090085       1-       B       f2         X 1001       XTAL SMD-49TA       7.4MHz       7.4MHZ       H0103285       1-       B       g1         X 1002       XTAL TOP-B       17.475MHz       17.475MHz       H0103231       1-       B       g2         XF1001       XTAL FILTER       35S15A       H1102335       1-       B									1		
R 1343         CHIP RES.         0         1/16W         5%         RMC1/16S JPTH         J24189070         1- B         e1           S 1001         TACT SWITCH         SKQTLA         N5090110         1- B         b1           S 1003         ROTARY ENCODER         TP90D281NAE20 RY-7499         Q9000808         1- B         a3           TH1001         THERMISTOR         ERTJ0ER103J         G9090119         1- B         b3           TH1002         THERMISTOR         TBPS1R473K475H5Q         G9090068         1- A         F1           TH1003         THERMISTOR         TBPS1R223K460H5Q         G9090085         1- B         f2           X 1001         XTAL SMD-49TA         7.4MHz         7.4MHZ         H0103285         1- B         g1           X 1002         XTAL TOP-B         17.475MHz         17.475MHZ         H0103231         1- B         g1           XF1001         XTAL FILTER         35S15A         H1102335         1- B         g2           CONTACT         OG-503040         S5000243         1- A         F3           CONTACT         OG-503040         S5000243         1- A         F2											1
S 1001         TACT SWITCH         SKQTLA         N5090110         1-         B         b1           S 1002         TACT SWITCH         SKQTLA         N5090110         1-         B         c1           S 1003         ROTARY ENCODER         TP90D281NAE20 RY-7499         Q9000808         1-         B         a3           TH1001         THERMISTOR         ERTJ0ER103J         G9090119         1-         B         b3           TH1002         THERMISTOR         TBPS1R473K475H5Q         G9090068         1-         A         F1           TH1003         THERMISTOR         TBPS1R223K460H5Q         G9090085         1-         B         f2           X 1001         XTAL SMD-49TA         7.4MHz         7.4MHZ         H0103285         1-         B         f2           X 1002         XTAL TOP-B         17.475MHz         17.475MHZ         H0103231         1-         B         g1           XF1001         XTAL FILTER         35S15A         H1102335         1-         B         e2           CONTACT         OG-503040         S5000243         1-         A         F3           CONTACT         OG-503040         S5000243         1-         A         F2			1								1
S 1002     TACT SWITCH S 1003     SKQTLA TP90D281NAE20 RY-7499     N5090110 Q9000808     1- B 1- B 33       TH1001     THERMISTOR THERMISTOR     ERTJ0ER103J TBPS1R473K475H5Q     G9090119 G9090068     1- B 1- B 1- B 1- B 1- B 1- B 1- B 1- B				1, 1000	J 70						
S 1003         ROTARY ENCODER         TP90D281NAE20 RY-7499         Q9000808         1-         B         a3           TH1001         THERMISTOR         ERTJ0ER103J         G9090119         1-         B         b3           TH1002         THERMISTOR         TBPS1R473K475H5Q         G9090068         1-         A         F1           TH1003         THERMISTOR         TBPS1R223K460H5Q         G9090085         1-         B         f2           X 1001         XTAL SMD-49TA         7.4MHz         7.4MHZ         H0103285         1-         B         g2           X 1002         XTAL TOP-B         17.475MHz         17.475MHZ         H0103231         1-         B         g1           XF1001         XTAL FILTER         35S15A         H1102335         1-         B         e2           CONTACT         OG-503040         S5000243         1-         A         F3           CONTACT         OG-503040         S5000243         1-         A         F2										l	1
TH1001         THERMISTOR         ERTJ0ER103J         G9090119         1-         B         b3           TH1002         THERMISTOR         TBPS1R473K475H5Q         G9090068         1-         A         F1           TH1003         THERMISTOR         TBPS1R223K460H5Q         G9090085         1-         B         f2           X 1001         XTAL SMD-49TA         7.4MHz         7.4MHZ         H0103285         1-         B         d2           X 1002         XTAL TOP-B         17.475MHz         17.475MHZ         H0103231         1-         B         g1           XF1001         XTAL FILTER         35S15A         H1102335         1-         B         e2           CONTACT         OG-503040         S5000243         1-         A         F3           CONTACT         OG-503040         S5000243         1-         A         F2						l			1-	В	а3
TH1003         THERMISTOR         TBPS1R223K460H5Q         G9090085         1-         B         f2           X 1001         XTAL SMD-49TA         7.4MHZ         7.4MHZ         H0103285         1-         B         d2           X 1002         XTAL TOP-B         17.475MHZ         H0103231         1-         B         g1           XF1001         XTAL FILTER         35S15A         H1102335         1-         B         e2           CONTACT         OG-503040         S5000243         1-         A         F3           CONTACT         OG-503040         S5000243         1-         A         F2											
X 1001     XTAL SMD-49TA     7.4MHz     7.4MHZ     H0103285     1-     B     d2       X 1002     XTAL TOP-B     17.475MHz     17.475MHZ     H0103231     1-     B     g1       XF1001     XTAL FILTER     35S15A     H1102335     1-     B     e2       CONTACT     OG-503040     S5000243     1-     A     F3       CONTACT     OG-503040     S5000243     1-     A     F2						l					
X 1002     XTAL TOP-B     17.475MHz     17.475MHZ     H0103231     1-     B     g1       XF1001     XTAL FILTER     35S15A     H1102335     1-     B     e2       CONTACT     OG-503040     S5000243     1-     A     F3       CONTACT     OG-503040     S5000243     1-     A     F2			7 454: :								
XF1001         XTAL FILTER         35S15A         H1102335         1-         B         e2           CONTACT         OG-503040         S5000243         1-         A         F3           CONTACT         OG-503040         S5000243         1-         A         F2						I				l	1
CONTACT         OG-503040         S5000243         1- A F3           CONTACT         OG-503040         S5000243         1- A F2			17.4/5IVIHZ						_		
CONTACT     OG-503040   S5000243   1-   A   F2	VE 1001								_		
									1		
											-

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
	INTER CONNECTOR				(LCD) (A)	RA0580700		1-		
	REFLECTOR SHEET MIC HOLDER RUBBER				(A)	RA0580500 RA0578200		1- 1-		



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